

U.S. Coast Guard Oceanographic Report
DEPARTMENT OF TRANSPORTATION



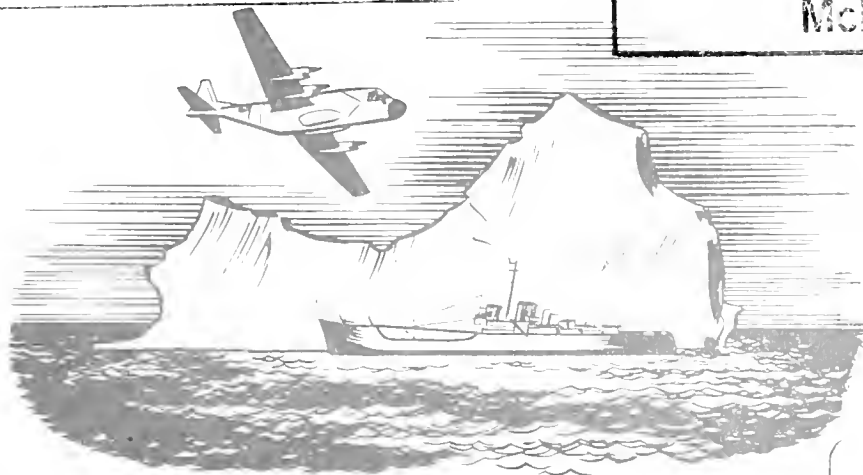
COAST GUARD

**OCEANOGRAPHY OF
THE GRAND BANKS REGION OF
NEWFOUNDLAND**

April - August 1971

Woods Hole Oceanographic Institution
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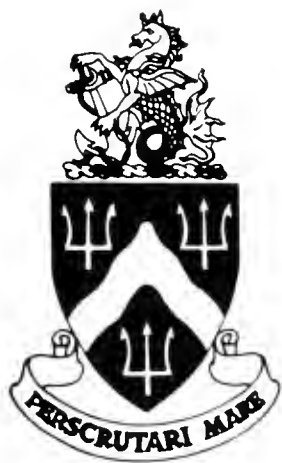
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OCEANOGRAPHIC REPORT

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OCEANOGRAPHY OF THE GRAND BANKS REGION OF NEWFOUNDLAND

April - August 1971

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MBL/WHOI



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United States Coast Guard
Oceanographic Unit
Washington, D.C.

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ABSTRACT

Three cruises were conducted to the Grand Banks of Newfoundland during the 1971 International Ice Patrol season to determine the currents that affect the drift of icebergs. During a multiship survey in May, standard sections A2 and A3 were occupied concurrently on three different occasions separated by approximately 3 to 4 days. Calculated geostrophic volume transports at standard section A2 varied slightly between occupations, while sharp variations were observed at A3. Upwelling was observed at standard section A3 between the 20 May and 24 May occupations; a sharp decrease in volume transport resulted from the changes in the density structure observed along the continental slope. Direct current measurements made just west of the continental shelf break during the August post-season cruise showed an apparent tidal influence, while measurements along the western edge of the Labrador Current yielded current speeds of approximately one knot.

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OCEANOGRAPHY OF THE GRAND BANKS REGION OF NEWFOUNDLAND

APRIL–AUGUST 1971

ALAN DALE ROSEBROOK¹

INTRODUCTION

Three cruises were conducted to the Grand Banks of Newfoundland during 1971 to study the circulation of the region (fig. 1). The oceanographic cruises were conducted in support of Commander International Ice Patrol for use in predicting iceberg drift into the North Atlantic. The study included hydrographic surveys, direct current measurements using parachute drogues, and direct current measurements from taut-line instrumented arrays set at 46°-40'N., 47°24'W. and 45°02'N., 48°55'W.

April EVERGREEN Survey

During the first Ice Patrol cruise aboard USCGC EVERGREEN (WAGO 295), a survey consisting of standard sections A2 and A3, and special sections A2A, A2B, A3B, and S1 was completed (fig. 2). Seventy STD stations, consisting of Ice Patrol stations 10808 through 10877, were occupied. The sections were occupied in rapid sequence to furnish real-time analysis of the current regime along the eastern edge of the Grand Banks region. Commander International Ice Patrol utilized this information for the prediction of iceberg movements.

May Multiship Survey

During the first half of the second cruise, technicians from Woods Hole Oceanographic Institution (WHOI) established a subsurface oceanographic buoy array near 39°52'N., 48°32'W. to provide direct current measurements near the

ocean bottom. An expendable bathythermograph survey was conducted by WHOI for two days to chart the northern boundary of the Gulf Stream by following the 15.0°C isotherm at a depth of 200 meters.

On 11 May 1971, the Coast Guard Oceanographic Unit (CGOU) field party established an oceanographic buoy system in the Labrador Current. The array was set in 198 meters of water at 45°02'N., 48°55'W. A second buoy system was set on 12 May 1971 in the Labrador Current in 205 meters of water at 46°40'N., 47°24'W. The current meter arrays were designed by adopting and modifying a basic successful array developed by WHOI (Berteaux and Walden, 1969). A detailed discussion of the design, construction, and deployment of the 1971 buoy arrays is presented in CGOU Technical Report 72-1 (Vais et al., 1972). Prior to a port call in St. John's, Newfoundland, EVERGREEN occupied the east-west leg of standard section A2, consisting of Ice Patrol stations 10878 through 10884.

EVERGREEN occupied standard section A2 once, the east-west leg of A2 on two occasions, and special sections A1C, A1B, and A2A (Ice Patrol stations 10885 through 10944). On 25 May, the northern CGOU buoy array was successfully recovered. Attempts to retrieve the southern array were futile. Although the surface float was missing, the acoustic release responded to interrogation when EVERGREEN was directly over the buoy position, leading to speculation that one of the many fishing vessels operating in the area may have accidentally cut the surface float loose during one of the frequent

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periods of restricted visibility experienced in May. The current meters were recovered by a Newfoundland fishing vessel in late January 1973; the acoustic release was not recovered. Only the two northern current meters apparently functioned properly. Data from the two good magnetic tapes are presently being analyzed and will be the subject of a separate report.

USCGC ROCKAWAY (WAGO 377) occupied standard section A3 on three occasions, along with single occupations of special sections A2B, A2C, A3A, and A3B. The three occupations of standard section A3 occurred almost simultaneously with EVERGREEN's occupations of standard section A2. The sections were surveyed concurrently to provide data on short

term changes in the volume transport of the Labrador Current.

July-August Post-Season Cruise

During the first half of the EVERGREEN post-season cruise, dragging operations were conducted without success in an attempt to recover the current meter array lost during the May cruise. Details of these dragging operations are presented in Vais et al. (1972). EVERGREEN conducted direct current measurements at two locations with parachute drogues before heavy weather forced a premature termination of operations. EVERGREEN successfully recovered the WHOI current meter array set in May.

INSTRUMENTATION AND METHODS

STD-DDL System

A Plessey Environmental Systems, Model 9040, S T/D Environmental Profiling System (STD) was the primary sampling instrument at 199 hydrographic stations during the 1971 Ice Patrol. During the May multiship survey, ROCKAWAY and EVERGREEN each used a Plessey Environmental Systems, Model 8114A, Digital Data Logger (DDL) with the 9040 STD system. Four channels of information were scanned at sample rates from ten scans per second to one scan every two seconds. STD frequencies representing depth, temperature, and salinity were converted to binary and recorded on a 7 channel IBM compatible magnetic tape at a bit density of 200 bpi. The fourth information channel was available for recording sound velocity on the DDL, but it was never used. The tape format for each STD cast consisted of a station identifier (up to 8 characters) followed by any number of data records, depending on the maximum depth and lowering rate of the cast. Each record consisted of the temperature and salinity information at 32 depth levels. An average one thousand meter cast was composed of about 2400 data levels recorded on approximately 80 records. Three computer programs were developed by CGOU to reduce the number of data levels to a more manageable figure of 50 to 100 which would still accurately represent the original water column.

The computer programs were developed for a Control Data Corporation (CDC) 3300 computer. The first program, RFIL, inputs the STD and DDL constants and reads the records to be processed from the magnetic tape. The digitized frequencies were translated from binary to engineering units of depth (meters to tenths), temperature ($^{\circ}\text{C}$ to hundredths), and salinity (ppt to thousandths). The values were printed out so that an initial quality control check of the data could be made. In addition, a tape output provided the necessary input to the second program. When a rapid sample rate such as 0.1

second was used, a specific depth level might show up several times. While these temperature and salinity values were always close, they generally did not agree exactly, probably as a result of sensor lag. This indicates that the descent rate of the underwater sensor probably should be less than the 25 to 60 meters per minute presently being used. The output from the first program was normally around 2400 levels of data.

Program AVERS eliminated all levels where the depth had not increased from the preceding level. This decreased the number of levels by about one third. Temperature and salinity values were then averaged over successive 2.5 meter intervals. If there were less than five samples in an interval, the interval was expanded to include five consecutive levels in the average. This step brought the number of levels down to between 150 and 200.

The third program, STSP, determined the standard and significant levels, whose averaged values of temperature and salinity would accurately represent the original water column. Standard levels were taken at the averaged depths falling closest to certain depths we had specified. In 1971, we used the minimum recorded depth, 10, 20, 30, 50, 75, and 100 meters, every 25 meters to 300 meters, and then every 50 meters to 1000 meters. The first test for significant levels consisted of fitting a cubic curve successfully through five consecutive temperature data points. If the curvature at the midpoint exceeded an absolute value of 0.005, the second, third, and fourth points were compared with the data points immediately above and below. A level was significant if it departed from a straight line between the adjacent points by more than 0.04°C for temperature (more than 0.06‰ for salinity). The second test compared the differences between the curvature of two successive midpoints. If the absolute value of the difference exceeded 0.005, we again checked the departure of the point from the adjacent points,

using the same limits as in the first test to determine if the point was significant. If both of these tests were negative, we again checked the departure of levels from points immediately above and below. If the absolute departure was greater than 0.09 for both temperature and salinity, the level was significant. If the limits were not exceeded in any of the three tests, the level was not significant. After running the same checks for salinity, the top level of the five level group was dropped and the next new level was added onto the bottom end, and the testing was begun again. A punched card output from the STSP program was then processed for sigma-t and dynamic heights. The final number of levels was usually reduced to 50–100 levels.

Typical results of the processing procedures are shown for Ice Patrol station 10969 (fig. 3). The DDL recorded 2250 levels of data from the STD. After processing, 120 levels were selected as significant or falling closest to specified standard depths. Shown are the upper 300 meters of the raw DDL temperature and salinity distribution curves, over which have been plotted the processed DDL values.

Temperature and salinity curves from the analog trace, as originally recorded from the STD, were added to the processed DDL curve (fig. 4). The computed dynamic heights from the processed DDL data and the STD analog data differed by 83 dynamic millimeters. In this case, the STD trace could not be read accurately in the upper 250 meters due to rapid temperature variations with depth. In 40 percent of the stations taken during the May multiship survey, the difference between the dynamic height computed from the processed DDL data and the value from the STD analog trace was greater than 10 dynamic millimeters. In a majority of the cases, the difference could be attributed directly to one or more major problems in reading the analog trace in the surface layer.

STD Analog Trace versus Digital Data

During the 1970 Ice Patrol surveys, significant differences were noted between STD analog trace data and digital data logger records at the same level (Ettle and Wolford, 1973). When the initial soaking depth of the underwater unit was accounted for prior to reading the STD trace, the differences were reduced but remained significant. Analysis of the 1971 data showed that

when the quality control values (Niskin temperature and salinity values) were applied to the raw DDL values, the resulting quality control corrections for temperature and salinity were generally the same as the quality control corrections calculated using the analog trace. In general, comparisons of analog and DDL values at corresponding depths between 250 and 1000 meters were remarkably similar. Large variations were found, however, in the surface layers. For example, at Ice Patrol station 11003 dynamic heights were calculated from analog trace temperature and salinity values and DDL values, and were found to agree within 1 dynamic millimeter. However, in the top 100 meters the temperature differences between the two methods averaged 0.42°C , and the salinity difference was 0.11‰ . The differences can be traced directly to the inability of the technician to read the analog trace accurately because of extremely rapid variations in temperature and salinity with depth in the surface layer. The ability of the DDL to reduce the chance of human error and the increased data accuracy are major advantages of the DDL-STD system.

STD Quality Control Procedures

STD data were quality controlled by comparing STD analog trace and DDL values with temperature and salinity values obtained from Niskin bottles attached just above the underwater sensor unit. Normally, quality control corrections were computed based on the averaged corrections for each station. The Niskin bottle was equipped with two protected and two unprotected deep sea reversing thermometers. When the STD cast reached its deepest depth, the thermometers were allowed to soak for ten minutes to reach equilibrium before the Niskin bottle was tripped. The conductivity ratios of the quality control samples were determined using an inductive laboratory salinometer and were converted to salinities utilizing the method established in the International Oceanographic Tables published jointly by UNESCO and the National Institute of Oceanography of Great Britain (1966).

Data Processing

The reduced size of the field party during the April Ice Patrol cruise necessitated the use of modified data processing procedures. All quality control values were computed aboard EVER-

GREEN on a Honeywell DDP-516 computer or a Dietzgen Model 7410-PA programable calculator with programs developed at CGOU. Dynamic height computations relative to a 1000 decibar reference level of no motion were made on a DDP-516 computer at CGOU upon receipt of station and quality control data from the field. The computer programs utilized are described by Hislop (1973).

During the second cruise, data processing was accomplished at sea on DDP-516 computers. Dynamic heights at all Ice Patrol stations were transmitted to Commander International Ice Patrol on a real-time basis to assist in the prediction of iceberg drift.

Dynamic Calculations in Shallow Water

Dynamic heights for stations where the water depth was less than 1000 meters were calculated in a manner similar to that described by Helland-Hansen (1934). Isosteric surfaces between the ocean-sediment interface and the 1000 meter reference surface were assumed to extend hori-

zontally from the interface into the continental slope. In effect, the continental slope under a shallow station was assumed to be motionless water. The method is described in detail by Kollmeyer et al. (1967).

Navigation

Navigation during all cruises was based on information from Loran-A, Loran-C, UQN-4 fathometer, and satellite navigation (navsat). Poor visibility as a result of excessive fog routinely precluded celestial navigation, and poor loran coverage in certain areas of the Grand Banks region often reduced fix accuracies to as low as ± 5 miles or more.

Data

The data presented in the Tables of Oceanographic Data (Appendix A) are reproduced from computer cards supplied by the National Oceanographic Data Center (NODC Cruise No. 31-8245).

DYNAMIC TOPOGRAPHY

The general surface circulation along the eastern edge of the Grand Banks can be inferred from the mean monthly dynamic topography charts of the sea surface for April, May, and June prepared by Soule (1964). Dynamic heights for these charts were computed relative to the 1000 decibar reference surface.

The April 1971 survey was confined to the eastern region of the Grand Banks between standard section A2 and special section A3B (fig. 5). Because the major concentration of icebergs during the first survey was located in the area just east of Flemish Cap, a special section, S1, was established for the April survey between 46°N. , 43.5°W. and 49°N. , 43.5°W. to investigate geostrophic currents in this region. The dynamic topography from the April survey can be described as a "classical" circulation pattern, which can be expected on the Grand Banks during an average month of April. The circulation was characterized by the Labrador Current as a southward flowing stream generally confined between the 200 and 2000 meter contours along the eastern edge of the Grand Banks. The maximum geostrophic current speed of the Labrador Current (92.1 cm/s) occurred between stations 10860 and 10861 of standard section A3. Maximum speeds across the other sections were between 37.8 and 57.9 cm/s. These current speeds are typical of values from previous April surveys. To the east of the Labrador Current was a region of water having low specific volume as the result of mixing of Labrador Current and North Atlantic Current waters. This dynamic trough is a region of current reversal with the Labrador Current flowing south along the western edge of the trough and the North Atlantic Current moving northeast along the eastern side.

Except for an edge of the North Atlantic Current moving eastward along the southern end of special section S1, there was very little change in dynamic height over the section. What geostrophic current that was present was flowing toward the west, apparently contrary to the general drift of the icebergs east of Flemish Cap.

The dynamic topography contour chart developed from the May 1971 multiship survey (fig 6) showed several significant differences from the April survey. While the Labrador Current is still well defined along the eastern slope of the Grand Banks, geostrophic current speeds are substantially less than those observed during April. The maximum current speed of 61.2 cm/s occurred between station 10965 and 10966 of special station A2C. Maximum current speeds across the other sections ranged from 9.6 to 44.6 cm/s. North of section A2B, the Labrador Current was generally weak, with maximum current speeds averaging about 21.3 cm/s. Near the western end of section A2B, there were indications of a strong current flowing off the Grand Banks and joining the main stream of the Labrador Current. The resulting average maximum values of the Labrador Current south of section A2B had increased to 42.8 cm/s.

The bottom topography of the Grand Banks region has a strong effect on the directions of currents in the area. Normally, Flemish Cap acts as a boundary forcing the North Atlantic Current to bend eastward well south of it. During May it appeared that the location of the current had shifted almost 100 miles north and was flowing directly over the top of Flemish Cap. The North Atlantic Current could also be seen intruding deeply into the normal trough region toward the continental shelf near 45°N. , 47.5°W. and 46°N. , 46.5°W.

CONCURRENT STANDARD SECTION TIME SERIES

During the April 1965 Ice Patrol cruise, it was observed that large changes in the volume transport of the Labrador Current occurred during the nine days separating successive occupations of section U (approximately the same as the present standard section A3) (Kollmeyer et al., 1966). Data from three occupations of standard section A3 in 1966, where reoccupations occurred within 36 hours, showed volume transport variations that were highly irregular (Wolford, 1966). Large variations in the volume transport over short time periods at standard section A3 were also observed in 1967 (Morgan, 1969), 1968 (Andersen and Moynihan, 1971), 1969 (Andersen and Moynihan, 1971a), and in 1970 (Ettle and Wolford, 1973).

Earlier efforts, such as those reported by Smith (1931) and Soule and Challender (1949), attempted to relate changes in transport of icebergs to changes in surface atmospheric pressure using monthly mean pressure maps. Based on the rapid variation in current volume across section U over a ten day period in 1965, Day (1966) tried to show that short term meteorological effects immediately prior to section occupation might have a significant effect on volume transport. For 90 measurements of volume transport of the Labrador Current made between 1950 and 1965, it was evident that, in many cases, local winds had a strong effect on the volume transport. The mechanism of wind-induced set-up along the Newfoundland coast had a direct and nearly immediate effect on the flow through down-stream sections. There were, however, too many cases where Day's theory did not appear to be valid.

An attempt was made in 1970 to show that intensification of the Labrador Current occurred when local winds induced a mass transport of surface waters toward the eastern continental slope of the Grand Banks at standard section A3 (Ettle and Wolford, 1973). The piling of water along the shelf break produced downwelling, resulting in a strong intensification of the Lab-

rador Current. Ettle and Wolford also showed a possible second example of downwelling based on data from the 13-14 June 1964 occupation of standard section A3.

To test the hypothesis that localized surface winds along the continental slope may produce upwelling and downwelling resulting in rapid changes in volume transport, a concurrent time series of observations were conducted at standard sections A2 and A3 during May 1971.

The continental shelf break occurs at a depth of about 100 meters at both standard section A2 and A3, with the bottom dropping off rapidly to depths in excess of 1000 meters to effectively form a boundary for the ocean at the western end of both sections. Each section was occupied nearly concurrently on three occasions, A2 by EVERGREEN and A3 by ROCKAWAY. The sections were occupied at three to four day intervals between 20 and 27 May 1971. Observed weather conditions near both standard sections between the first and second occupations showed a mean wind from the south at approximately 5 knots at A2. Mean winds at A3, 130 miles south of A2, were from 145° true at 18 knots.

The work of Ekman (1905) provides a basis for understanding the effect of wind stress on ocean circulation. Due to the effect of the earth's rotation and frictional forces, the wind-induced transport is 90 degrees to the right of the wind. Thus at both sections between 20 and 24 May 1971, the net movement of the surface water layers was offshore, nearly parallel to the sections. However, the effect of the wind at A3 was much greater as a result of the higher mean wind. An approximate value of wind stress on the sea surface can be calculated from the formula:

$$\tau = C_d \rho_a |\bar{U}_a| \bar{U}_a$$

where: τ = Wind stress (dynes/cm²)

ρ_a = Density of the air (gm/cm³)

\bar{U}_a = Wind velocity (cm/s)

C_d = Dimensionless drag coefficient

TABLE I—VOLUME TRANSPORTS THROUGH STANDARD SECTIONS A2 AND A3

Occupation Number	Total Southward Transport (SVERDRUPS)	Cold Core (<2.0°C, <34.3‰) (SVERDRUPS)	% Southward Transport Due To Cold Core	Date of Occupation
SECTION A2				
1.....	2.50	1.79	71.7	20 May 1971
2.....	2.83	1.58	55.7	23 May 1971
3.....	2.42	1.58	65.2	25 May 1971
SECTION A3				
1.....	6.94	1.96	28.2	20 May 1971
2.....	3.29	1.01	30.6	24 May 1971
3.....	5.65	1.78	31.5	27 May 1971

Wilson (1960) reviewed all determinations of C_d and found that 0.0024 and 0.0015 were the values applicable to strong winds (>15 kns) and light winds (<15 kns), respectively. Determination of the wind stress on the sea surface at A3 gave a value of 2.65 dynes/cm². At A2 the corresponding value was only 0.13 dynes/cm², or less than 1/20 of the value at A3.

Baroclinic volume transports through sections A2 and A3 were computed based on geostrophic considerations (Table I). At A2, the total southward transport varied less than 15% between any of the three occupations. A comparison of the vertical sections of density, temperature, and salinity during the three occupations of A3 (figs. 7-10) showed very little change at any depth. Between the first and second occupations, there was a slight increase (0.32 sverdrups) of the total southward transport, but there was a decrease in the cold core transport (the cold core is defined as Labrador Current water less than 2° C and 34.3‰).

At section A3, the total southward transport decreased by more than 53% from 6.94 to 3.29 sverdrups between the 20 and 24 May occupations. There was a corresponding decrease in the volume transport of the cold core. Between the second and third occupations, the volume transport increased by 42% to 5.65 sverdrups. Between the first and second occupations, the 27.0 and 27.5 isopycnals near the shelf break moved upward 58 meters in 94.5 hours (20-24 May) in response to the offshore movement of the surface water layer (fig. 11). About 60 miles

east of the shelf break, there was a corresponding depression of the 27.5 isopycnal. The evidence of upwelling was also apparent in both temperature and salinity vertical sections near the continental slope (figs. 12-14).

Yoshida (1955) has considered upwelling associated with winds of a few days duration. He considered a two-layer ocean with a homogeneous upper layer of depth h , and the density difference between the two layers of $\Delta\rho$. A straight coast, or in this case the boundary formed by the eastern edge of the continental shelf, was defined by $x=0$. It was also assumed that conditions did not vary in the y -direction. For uniform wind stress, the vertical velocity at the base of the surface layer becomes:

$$W_{-h} = \frac{-k}{\rho f} \tau_y e^{kx}$$

where: W_{-h} = Vertical velocity (cm/s)

τ_y = Surface wind stress (dynes/cm²)

ρ = Density of water (g/cm³)

f = Coriolis parameter (s⁻¹)

k = Constant $\frac{f}{(gh\Delta\rho/\rho)}^{1/2}$ (cm⁻¹)

g = Gravitational acceleration (cm/s²).

Smith (1968) stated that for mid-latitudes, the constant k can be defined by:

$$50\text{km} \approx \frac{\pi}{k}$$

where: 50 kilometers is the characteristic width for upwelling.

Based on Yoshida's work, the computed velocity of upwelling at standard section A3 was 0.016 cm/s. The velocity of the observed upwelling from the displacement of the 27.0 and 27.5 isopycnals was 0.017 cm/s.

The upwelling along the western boundary at A3 resulted in an increase in the density of the upper 300 meters and an 8 dynamic centimeter decrease in dynamic height at the surface between the first two occupations. Further to the east, in the trough region, there was a slight decrease in density which resulted in a 1 dynamic centimeter increase in surface dynamic height. The change in the density structure of the upper 1000 meters at A3 was responsible for the sharp decrease in volume transport noted between 20

and 24 May. The increased transport between the second and third occupations resulted from a decrease in density at the western end of A3 and an increase in density at the trough stations.

While the results were not conclusive, the observations during 1971 strongly suggest that localized winds on the Grand Banks may produce upwelling and downwelling which can modify the mass distribution of the area and can produce large localized variations in the southward transport of the Labrador Current. The time required for changes of this type to occur is on the order of three to four days or less. It is likely that this is only one of several processes which is responsible for intensification of the Labrador Current.

POST-SEASON DIRECT CURRENT MEASUREMENTS

During the second half of the post-season cruise, a series of direct current measurements were made at two stations using parachute drogues (fig. 15). The parachute drogues were of a relatively unsophisticated but effective design similar to one suggested by Volkmann et al. (1956) (fig. 16). Reference marker buoys were made using the same surface float design and 50 pounds of chain as an anchor. Visibility during the drogue studies was generally poor in fog and rain.

The two drogue stations were separated by 29 miles. Station 1 was located near $45^{\circ}56'N$, $48^{\circ}32'W$, in approximately 80 meters of water close to the continental shelf break. Station 2 was further eastward in about 400 meters of water near the western edge of the high velocity core of the Labrador Current. These locations were chosen because they were near standard section A2B, and current meter data were available from this same area. Station 2 ($45^{\circ}58'N$, $47^{\circ}50'W$.) was also chosen because the drogues could be placed in the Labrador Current in relatively deep water, but because of the steep bottom gradient, it was possible to anchor the marker buoy nearby in water less than 100 meters deep. Three drogues were set at each station at depths of 25, 50, and 75 meters, which approximated the depths where current can be expected to act on the underwater portion of typical icebergs encountered on the Grand Banks. The measurements were made to determine how well direct current measurements agreed with geostrophic values from the same area. A third station 60 miles east of station 2 was cancelled due to deteriorating weather after less than 3 hours of data were collected. Observations included radar ranges and bearings to each drogue and the reference marker buoy every 20 minutes, as well as weather observations.

Two different methods were used to compute drogue velocities on the CDC 3300 computer. The first method calculated the displacement and angle between successive observations. The dis-

placement was divided by the time between observations to get current speed. The second and more complex method fitted a second or third order polynomial through the x and y components of the drogue displacements taken seven at a time. The instantaneous velocity at the midpoint of the seven observations was then determined by differentiating the resulting polynomial. The advantage to the curve fitting method was a smoothing of any inaccuracies introduced by errors in taking radar ranges and bearings to the drogues and reference marker. The average drogue velocities determined by the two methods are shown in Table II. Agreement between the two methods was much better where the current speeds were highest and the directions were relatively constant. Drogue speeds discussed in this publication will be values from the polynomial method (method 2).

The drogues at station 1 were established in an attempt to determine if the Labrador Current had any influence on the current regime close to the edge of the continental shelf. A total of 22 hours of observations was made at station 1. All three drogues were acted upon by clockwise rotary currents on which a small translatory current was superposed (figs. 17 and 18). The resultant motion of the 25 meter drogue was toward 305° true, while the 50 and 75 meter drogues both moved toward 090° true, indicating a strong shear between the 25 and 50 meter levels. All three drogues completed the first loop at about the same time. Although there was considerable change in the instantaneous current speeds (0.7 to 17.8 cm/s) at all three depths, the average speed of the 50 and 75 meter drogues during the 22 hours of observations differed by only 0.1 cm/s.

An attempt was made to determine if the drift records would show either tidal or inertial periodicity by subtracting the average current velocity components from the components of the observed drogue velocity. While the results can not be considered conclusive, when the apparent

TABLE II—DROGUE SPEEDS AND RESULTANT DIRECTIONS

Depth (Meters)	STATION 1			STATION 2 RUN 1			STATION 2 RUN 2		
	Speed	Speed	Resultant	Speed	Speed	Resultant	Speed	Speed	Resultant
	(cm/s) Method 1	(cm/s) Method 2	Direction (°T)	(cm/s) Method 1	(cm/s) Method 2	Direction (°T)	(cm/s) Method 1	(cm/s) Method 2	Direction (°T)
25-----	17.4	10.0	302	47.6	46.4	218	46.6	43.1	225
50-----	13.5	6.9	089	51.0	51.9	217	47.0	44.4	225
75-----	15.6	6.8	090	42.0	41.4	216	47.1	44.8	317

Method 1 = Resultant distance/time

Method 2 = Fitting polynomial through X and Y components and differentiating

periods of the components of the three drogues were averaged, a value of 12.4 hours was found. Since this value is closer to the principal lunar tidal component (12.44 hours) than to the inertial period (17.2 hours), it is probable that the clockwise motion observed at station 1 was tidal in nature.

The three drogues at station 2 were set in the high velocity core of the Labrador Current (figs. 19 and 20). Their trajectories carried them southward, closely following the bathymetry between the 200 and 2000 meter depth contours at a speed of about one knot. The drogues were set at 2000Z, 4 August 1971 and tracked for about 11 hours before they moved out of radar range of the first marker buoy. A second marker

buoy was established at 1000Z, 5 August approximately 16 miles southwest of the first marker. The drogues were then followed for an additional 10 hours. As expected from previous geostrophic calculations in this region, the drogue at 50 meters showed the highest average speed for both runs at station 2 (48.2 cm/s). The average current speed at the 25 meter level was 44.8 cm/s, while at 75 meters it averaged only 43.0 cm/s. Based on these results, as well as values from earlier parachute drogue work (Wolford, 1966), it is apparent that although instantaneous velocities may vary over wide limits, a current speed of approximately 1 knot can be considered a reasonable value for the western edge of the Labrador Current.

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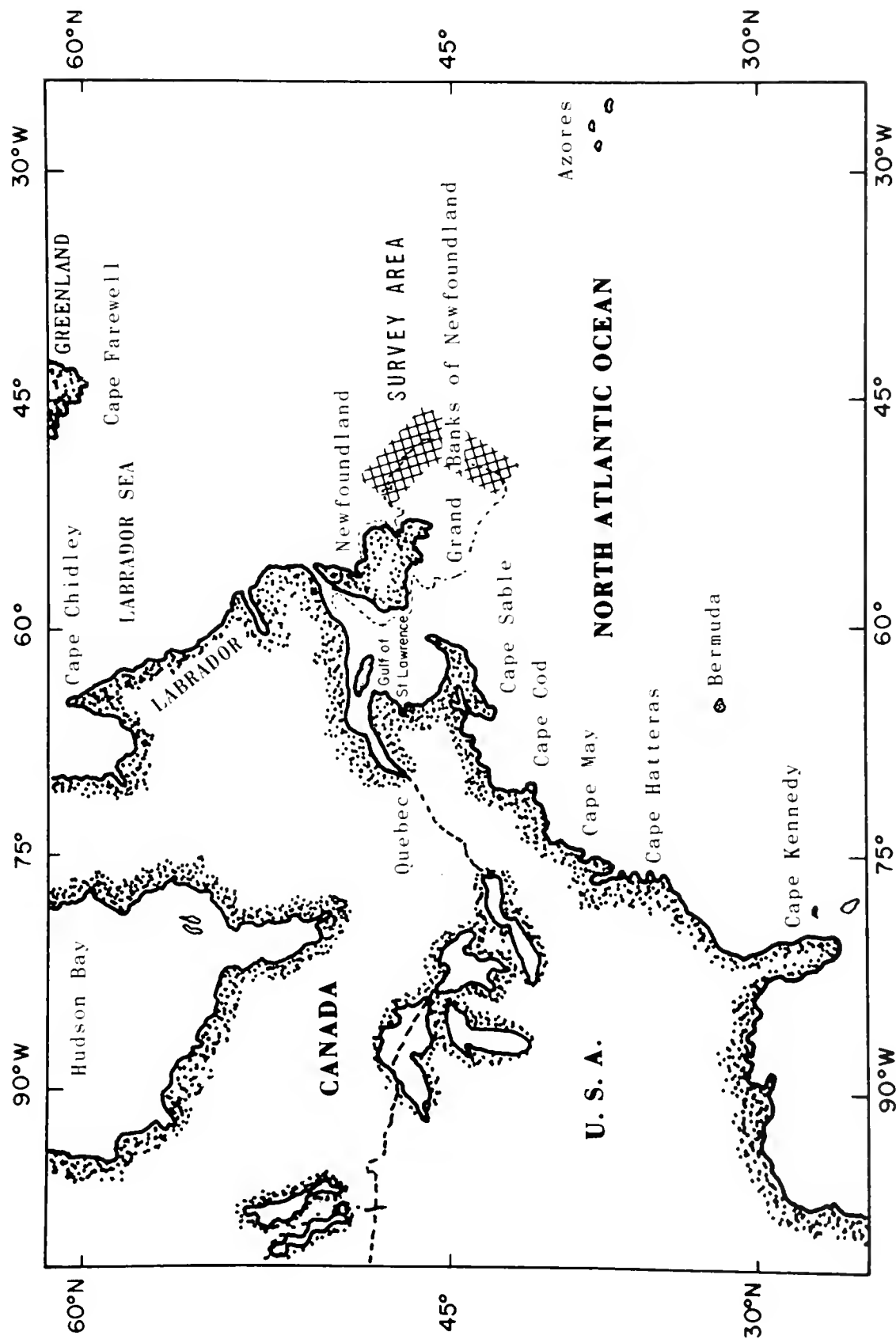


FIGURE 1. Geographic location of the Grand Banks of Newfoundland. Crosshatched area along the eastern edge of the Grand Banks shows the location of the 1971 Ice Patrol surveys.

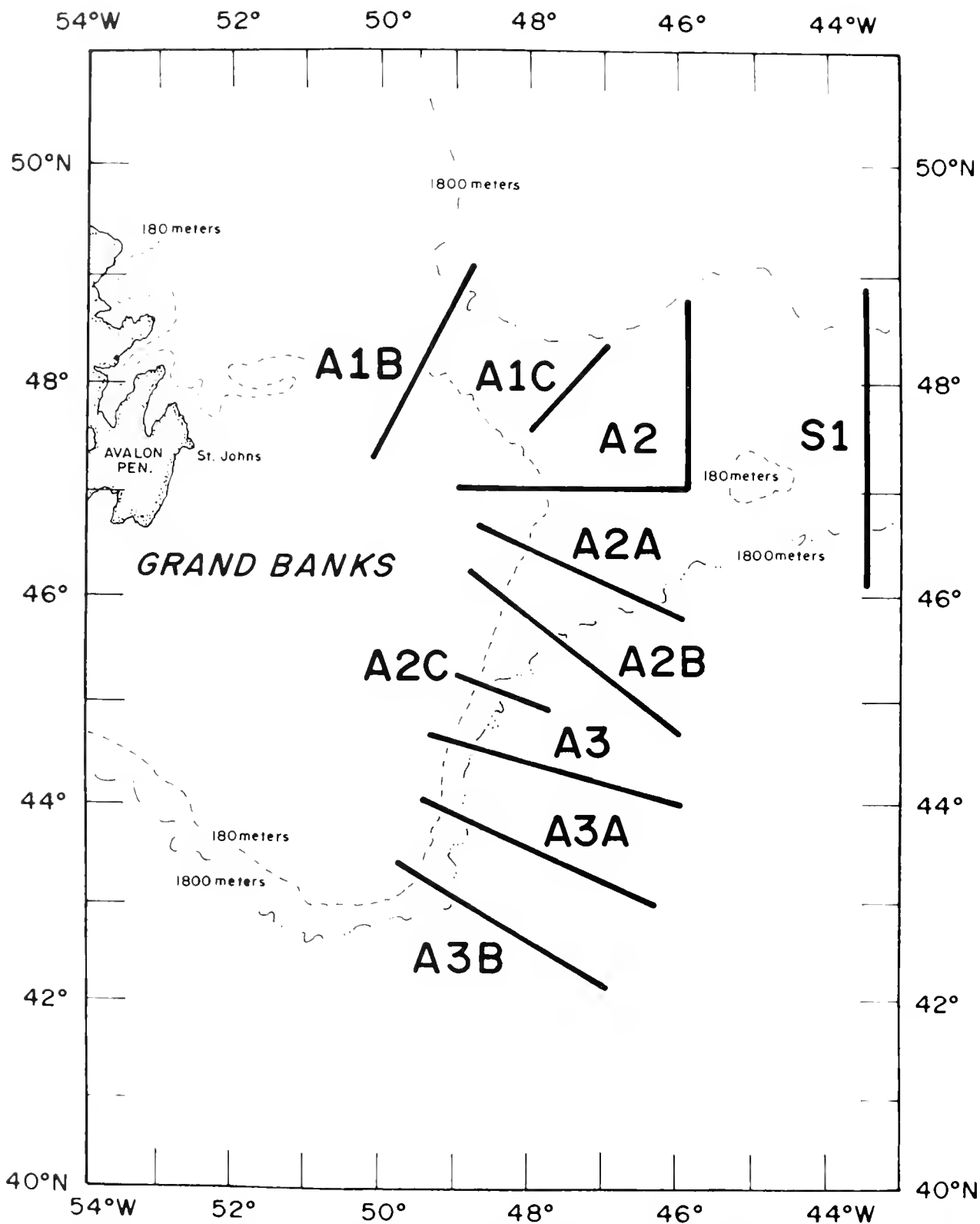


FIGURE 2. Locations of the International Ice Patrol standard and special monitoring sections occupied along the eastern continental slope of the Grand Banks of Newfoundland during 1971.

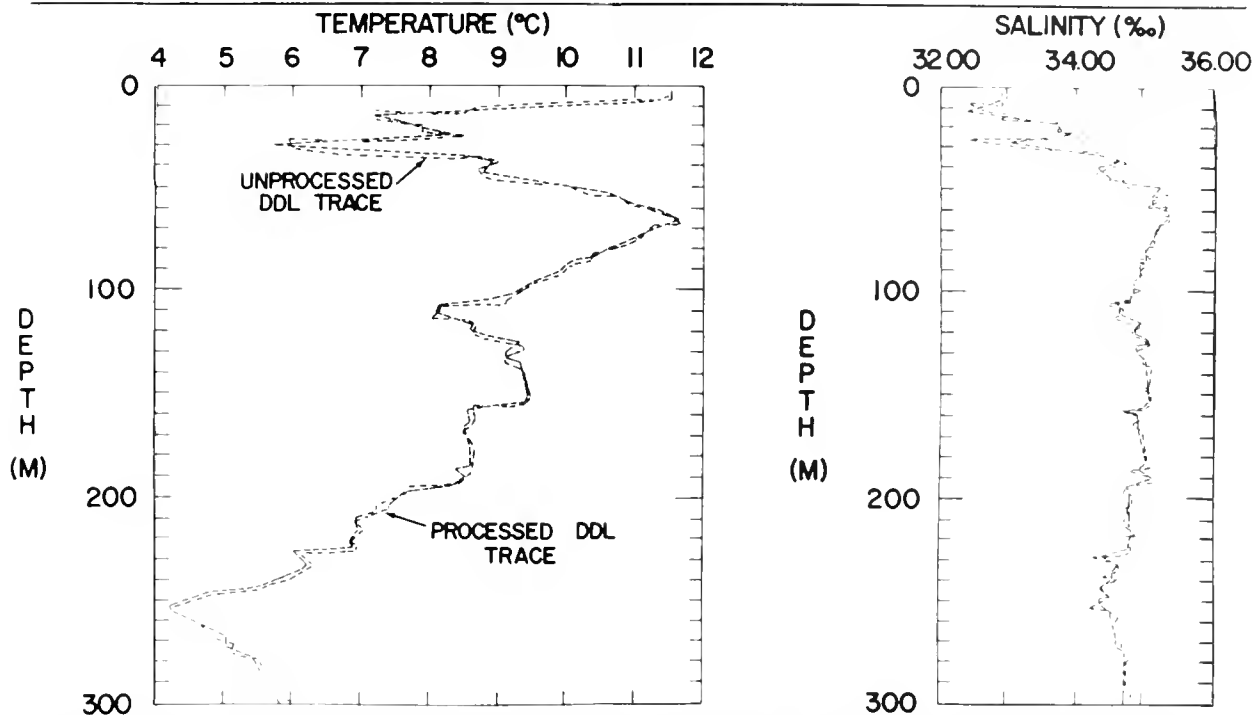


FIGURE 3. Comparison of processed versus unprocessed digital data logger temperature and salinity data in the upper 300 meters of the water column at International Ice Patrol station number 10969, occupied by CGC ROCKAWAY on 5 May 1971.

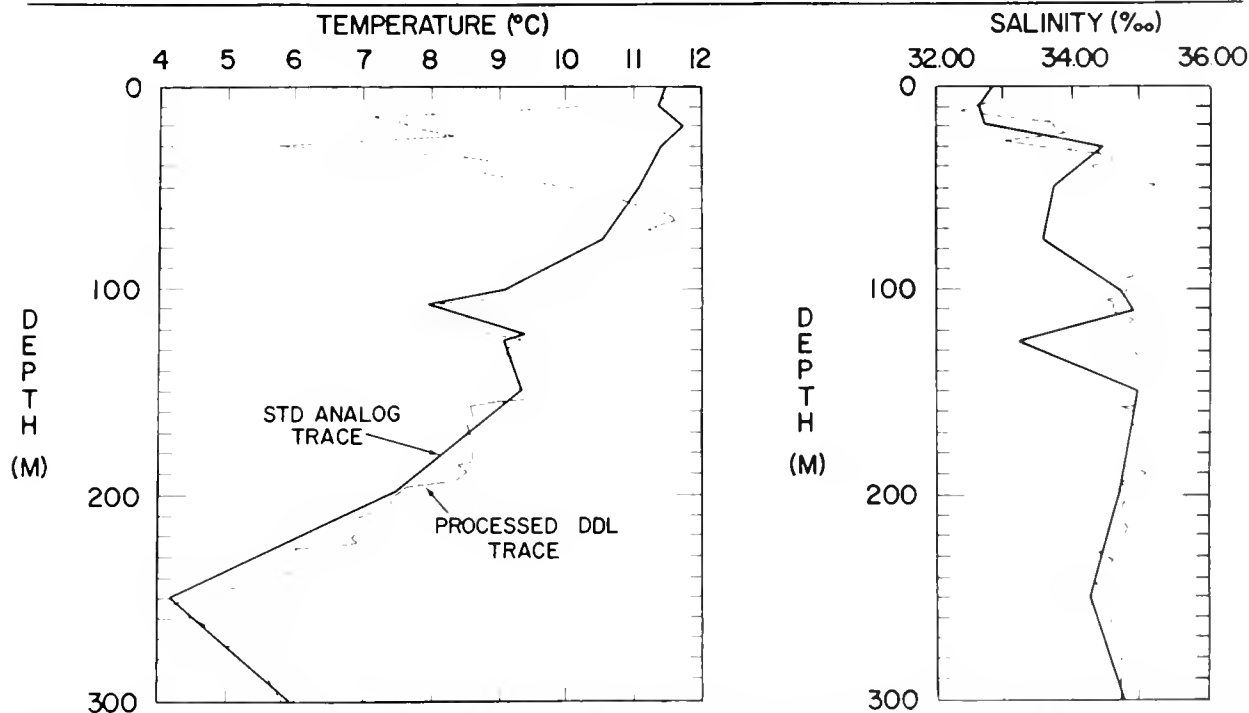


FIGURE 4. Comparison of processed digital data logger temperature and salinity values versus STD analog trace values in the upper 300 meters of the water column at International Ice Patrol station number 10969, occupied by CGC ROCKAWAY on 5 May 1971.

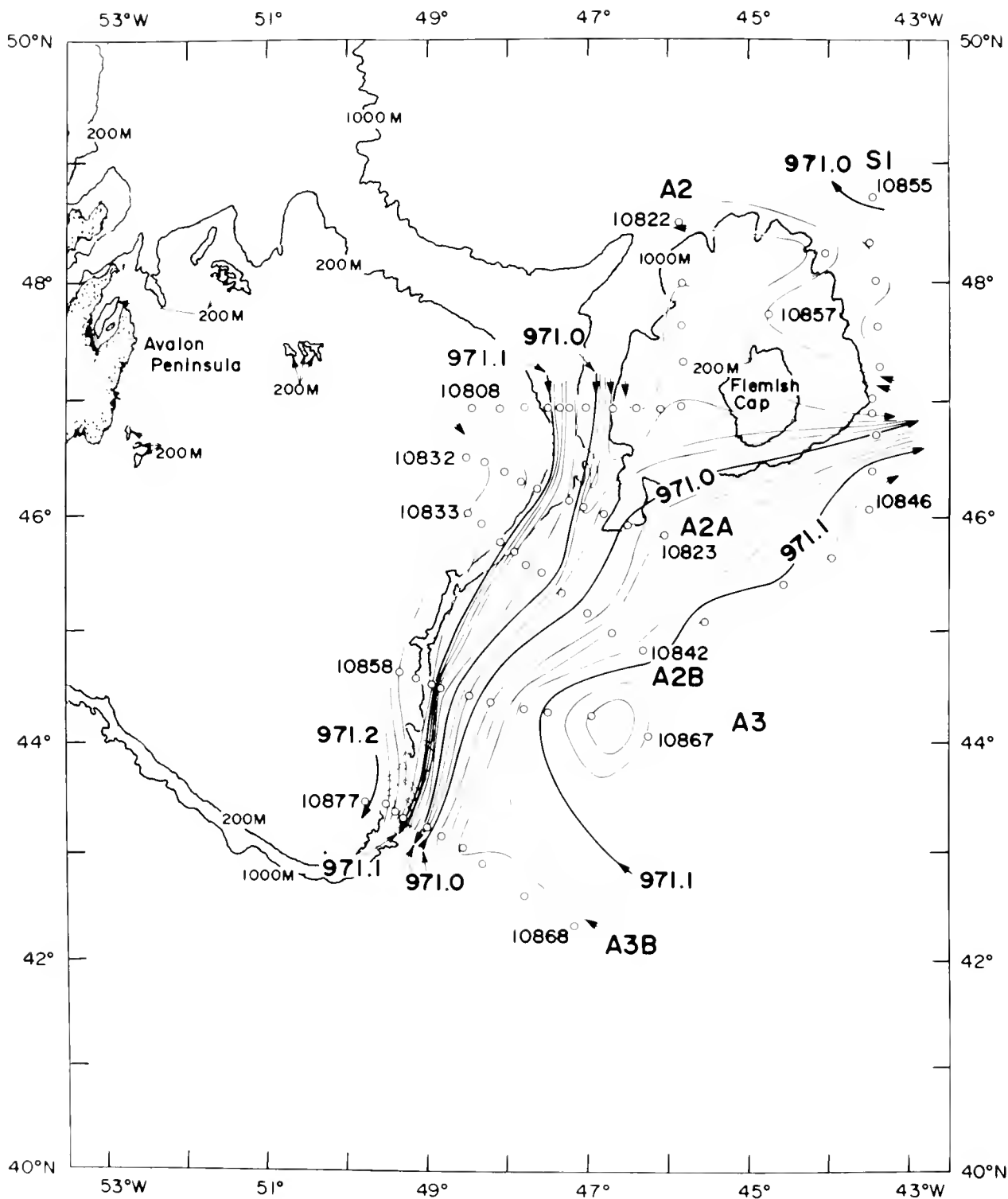


FIGURE 5. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibar surface, from data collected during the first CGC EVERGREEN survey, 5-13 April 1971. Oceanographic station positions are indicated and the station numbers are given at turning points. Heads of arrows indicate direction of geostrophic current.

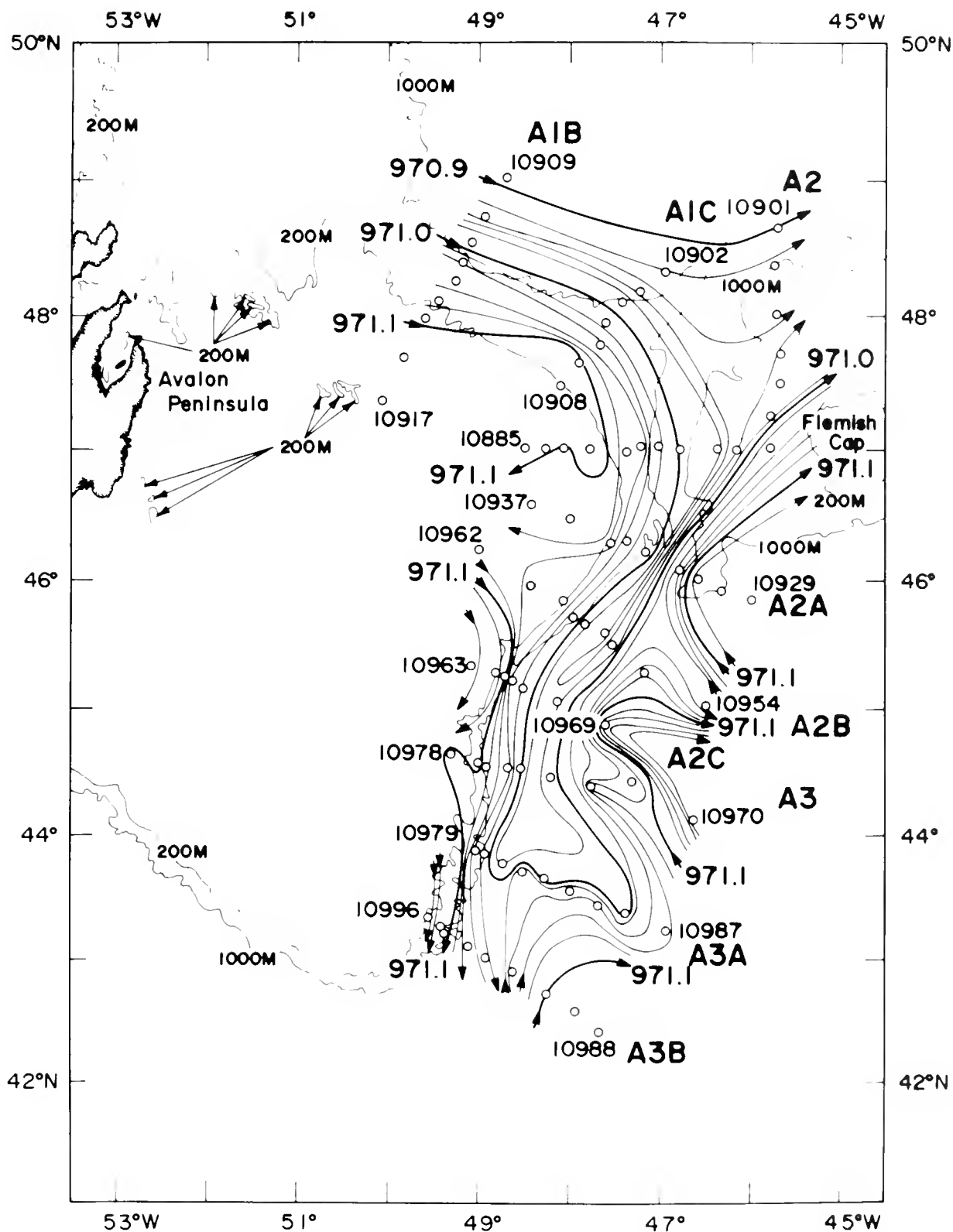


FIGURE 6. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibar surface, from data collected during the 1971 multiship survey by CGC EVERGREEN and CGC ROCKAWAY, 12-28 May 1971. Oceanographic station positions are indicated and the station numbers are given at turning points. Heads of arrows indicate direction of geostrophic current. Note: The station numbers are discontinuous.

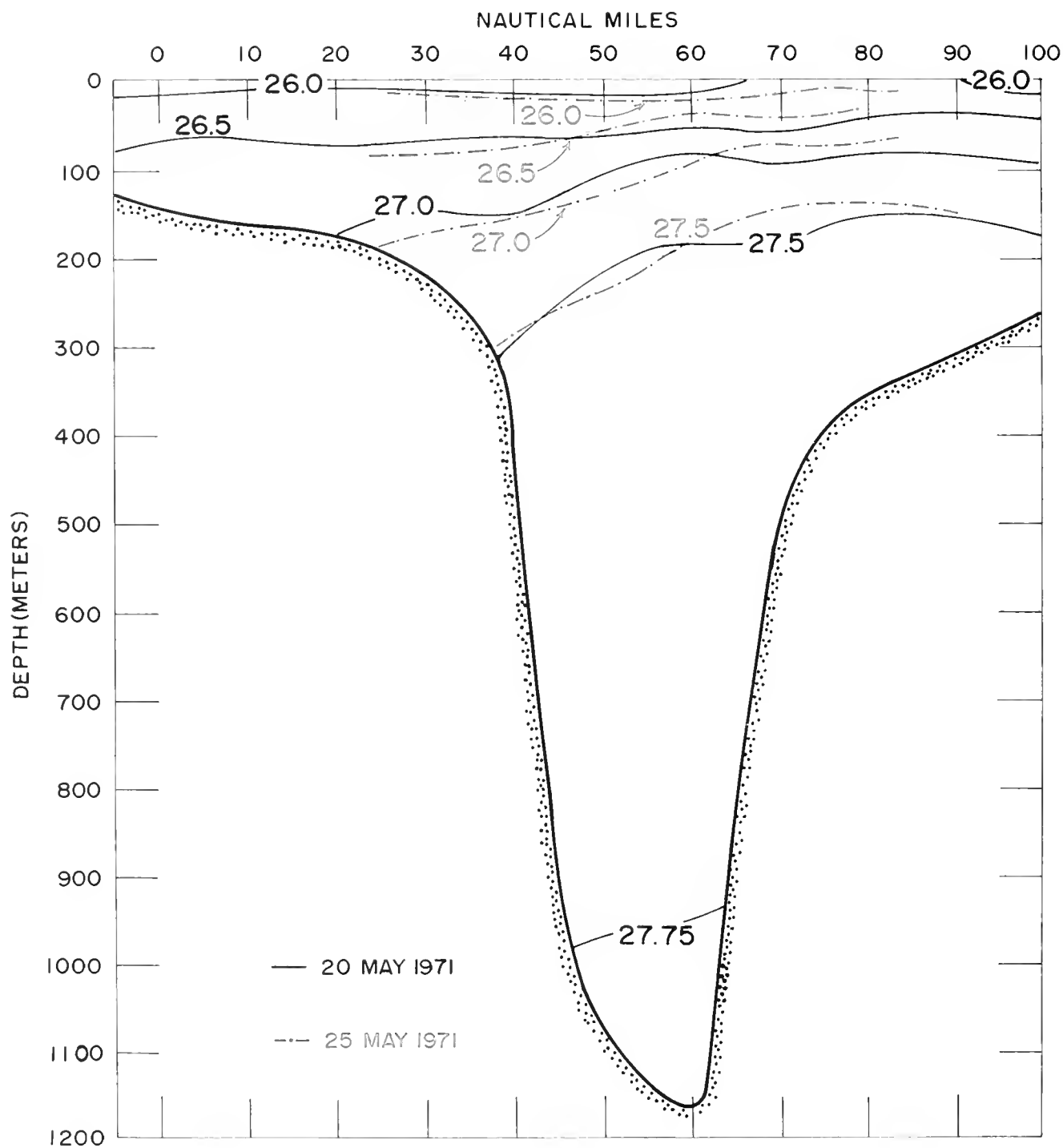


FIGURE 7. Vertical section of density (σ_t) for three occupations of standard section A2 by CGC EVERGREEN on 20 May, 23 May, and 25 May 1971. Only the east-west portion of A2 is included.

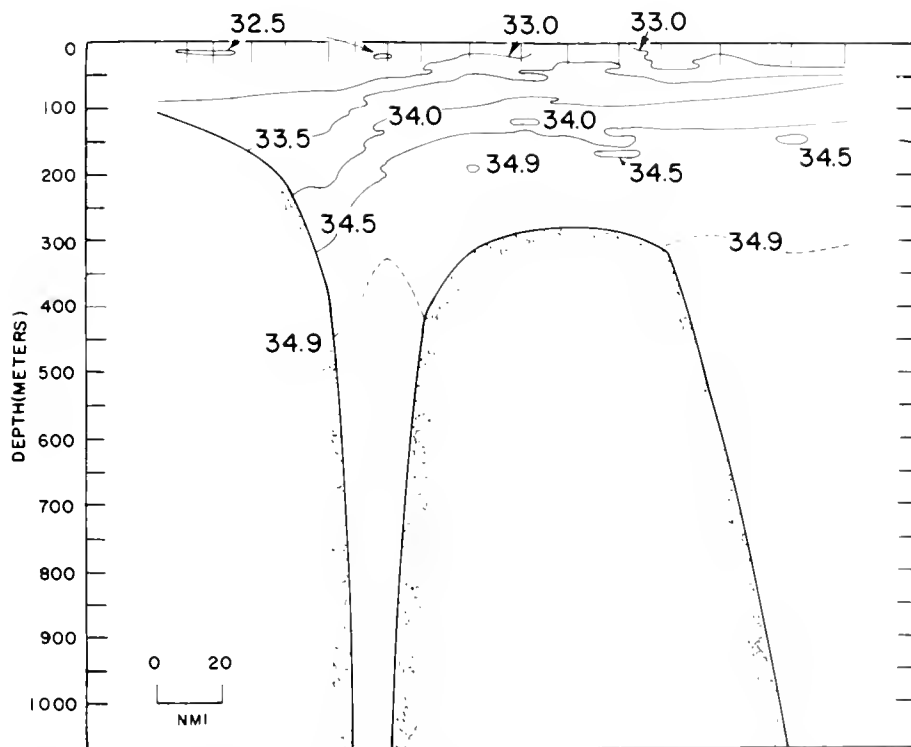
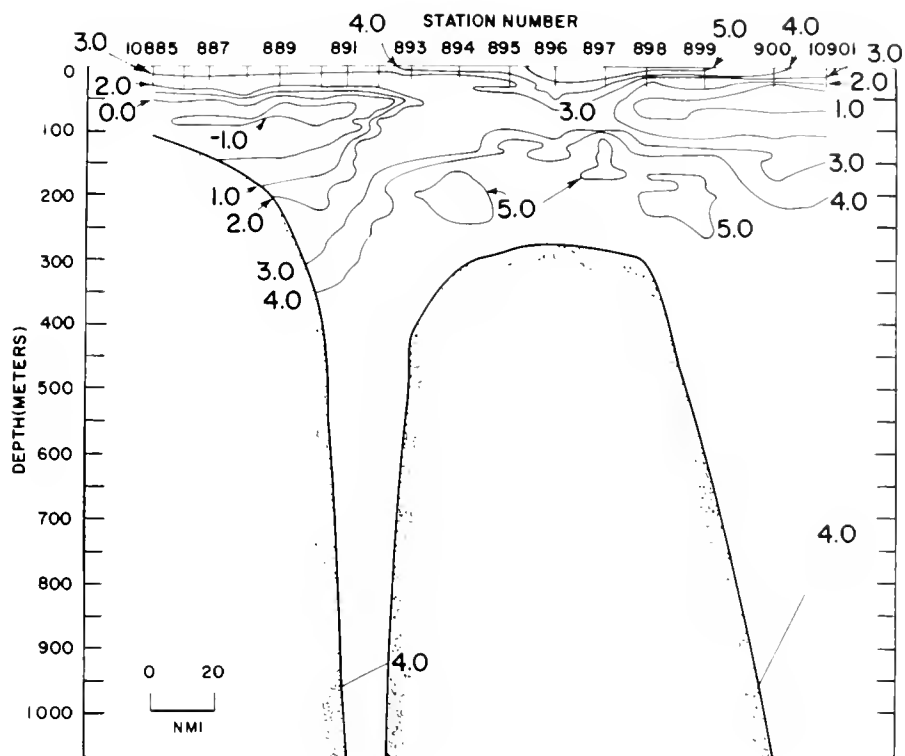


FIGURE 8. Vertical section of temperature ($^{\circ}\text{C}$) and salinity (‰) for standard section A2-1, occupied by CGC EVERGREEN, 20 May 1971. Section A2-1 possesses a 90° angle at station number 10895 where the east-west and north-south legs meet.

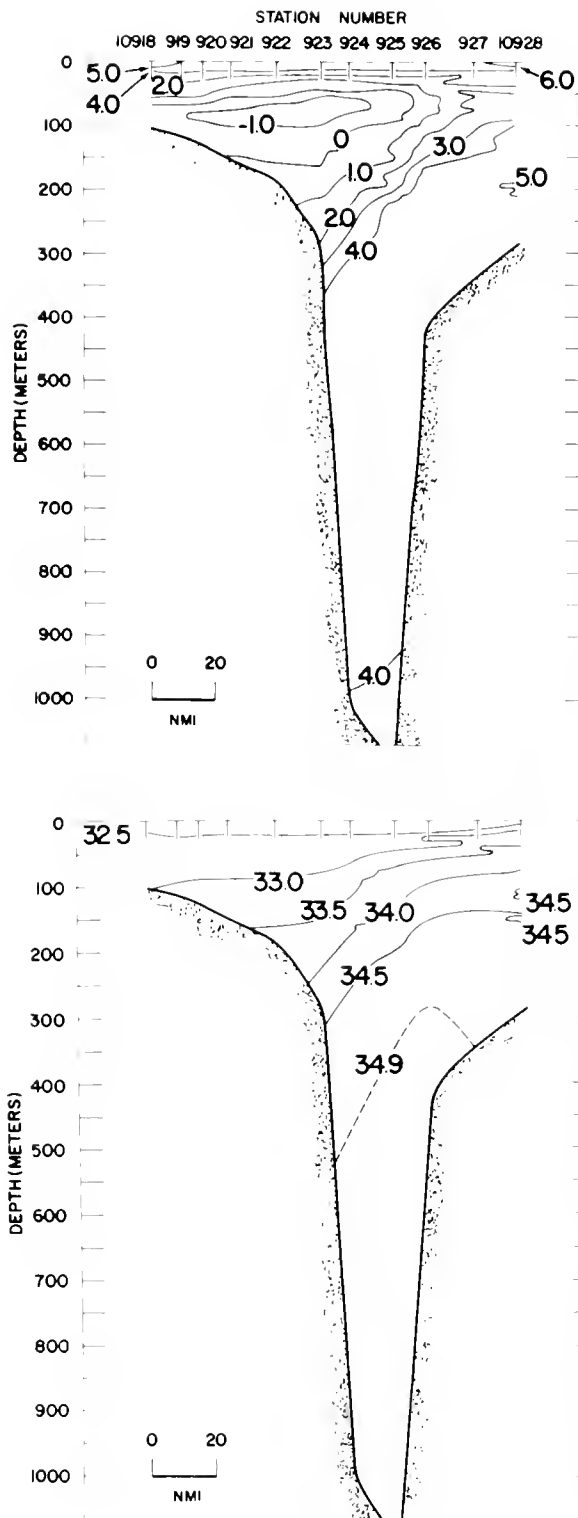


FIGURE 9. Vertical section of temperature ($^{\circ}\text{C}$) and salinity (‰) for standard section A2-2 occupied by CGC EVERGREEN, 23 May 1971.

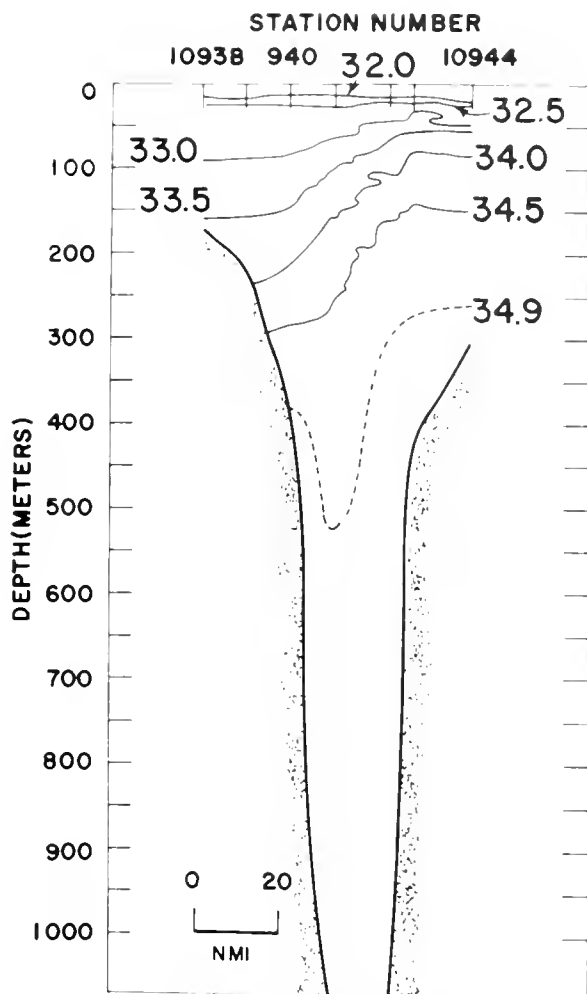
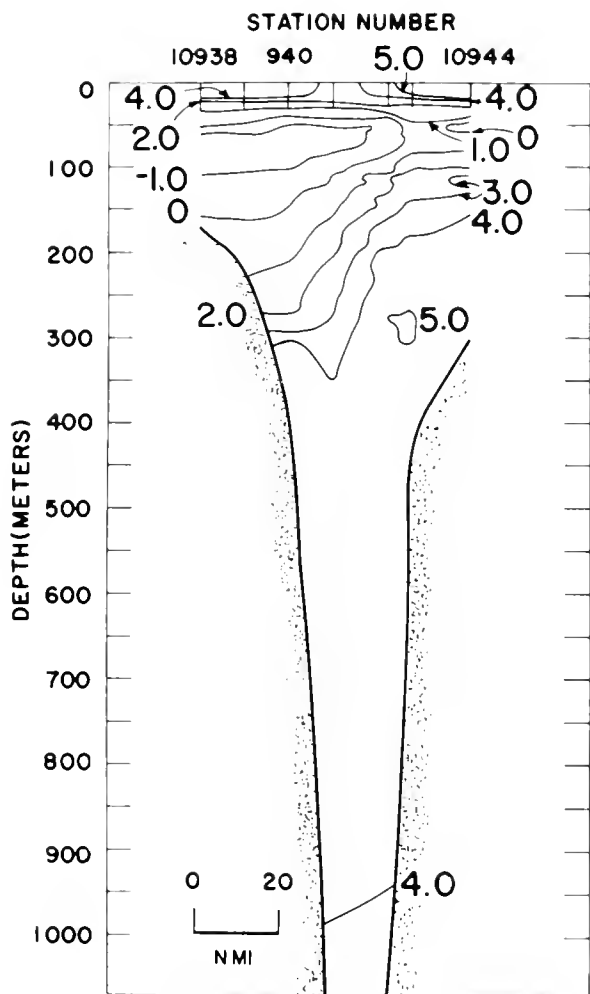


FIGURE 10. Vertical section of temperature ($^{\circ}\text{C}$) and salinity (‰) for standard section A2-3, occupied by CGC EVERGREEN, 25 May 1971.

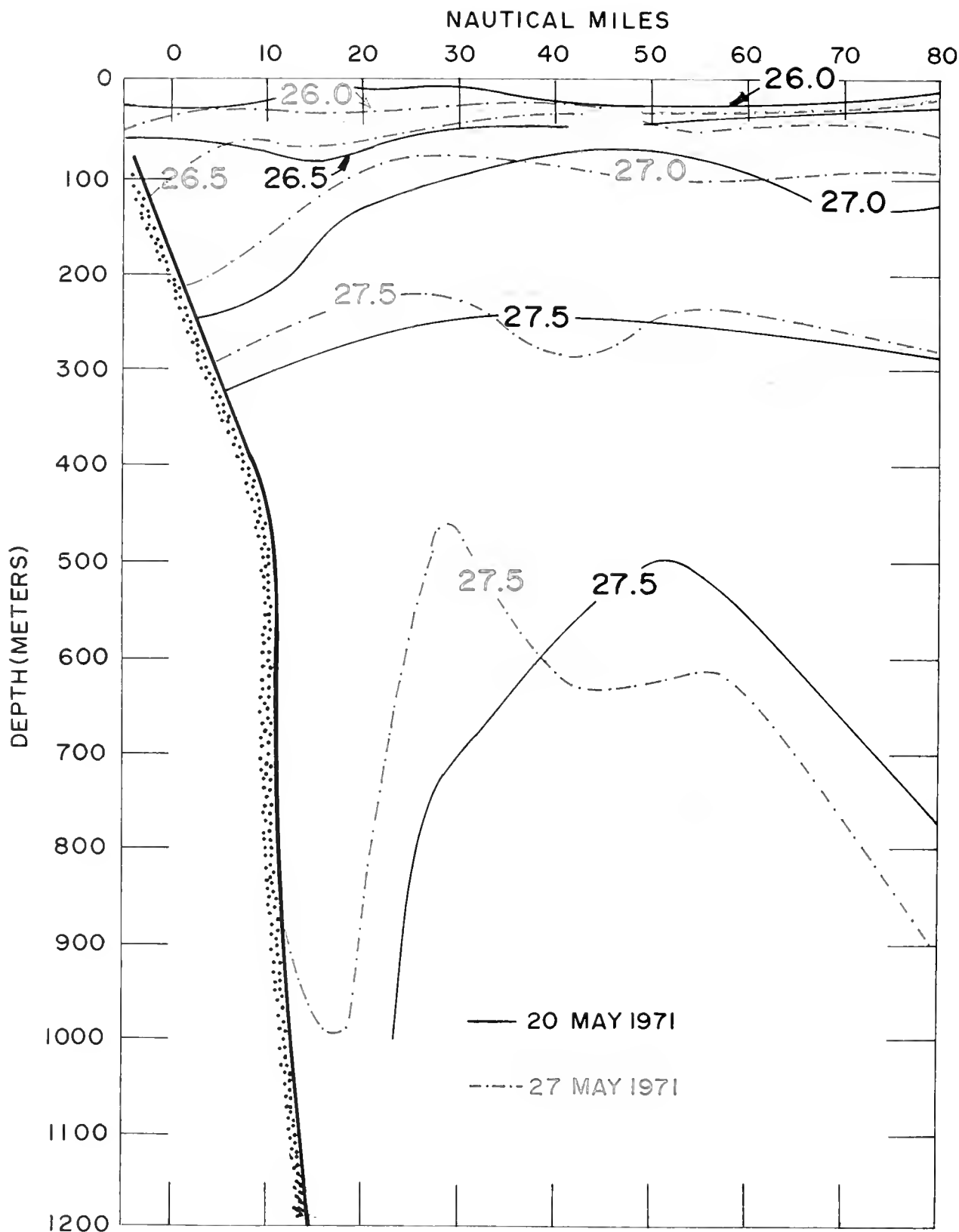


FIGURE 11. Vertical section of density (σ_t) for three occupations of standard section A3 by CGC ROCKAWAY on 20 May, 24 May, and 27 May 1971.

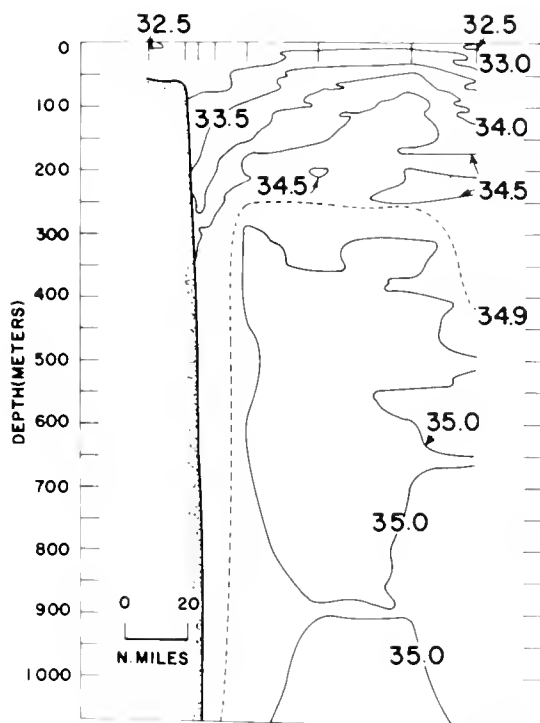
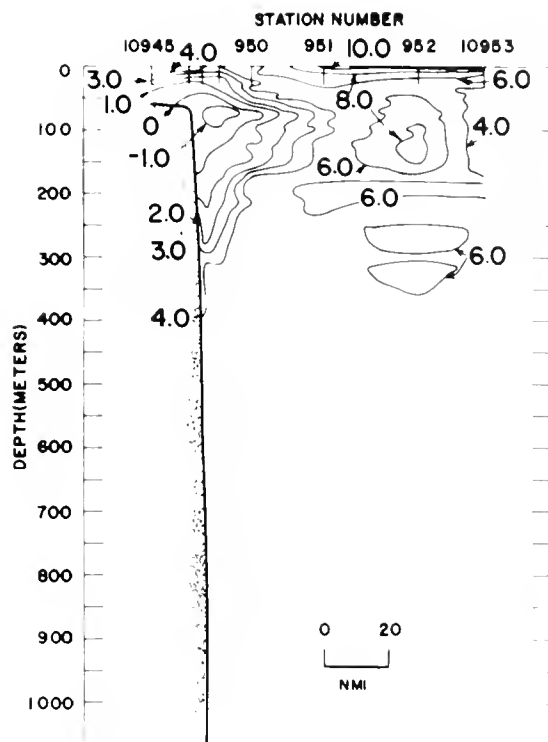


FIGURE 12. Vertical section of temperature ($^{\circ}\text{C}$) and salinity (‰) for standard section A3-1, occupied by CGC ROCKAWAY, 20 May 1971.

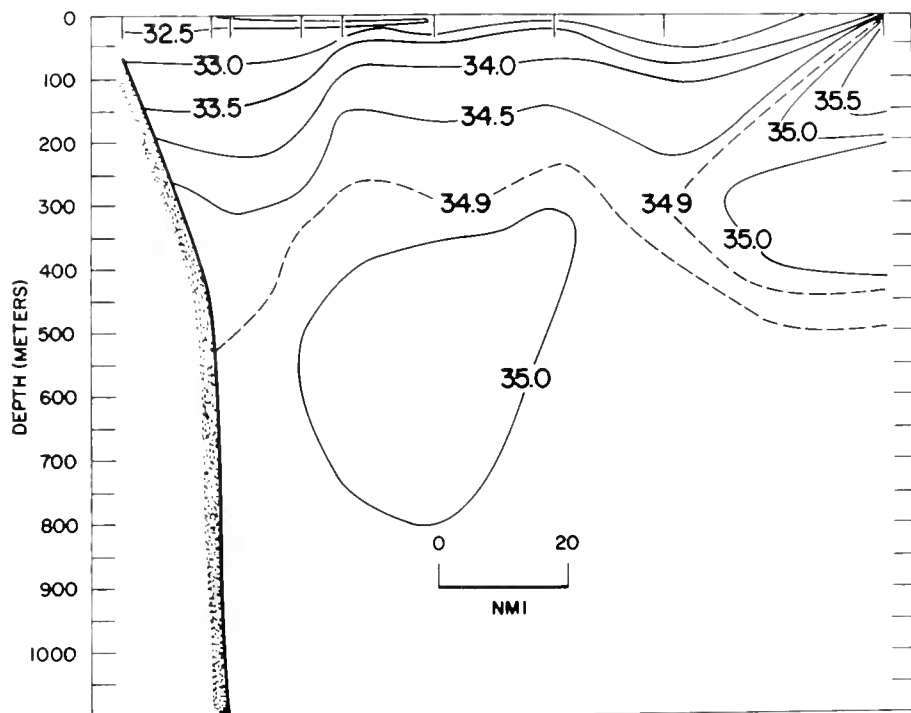
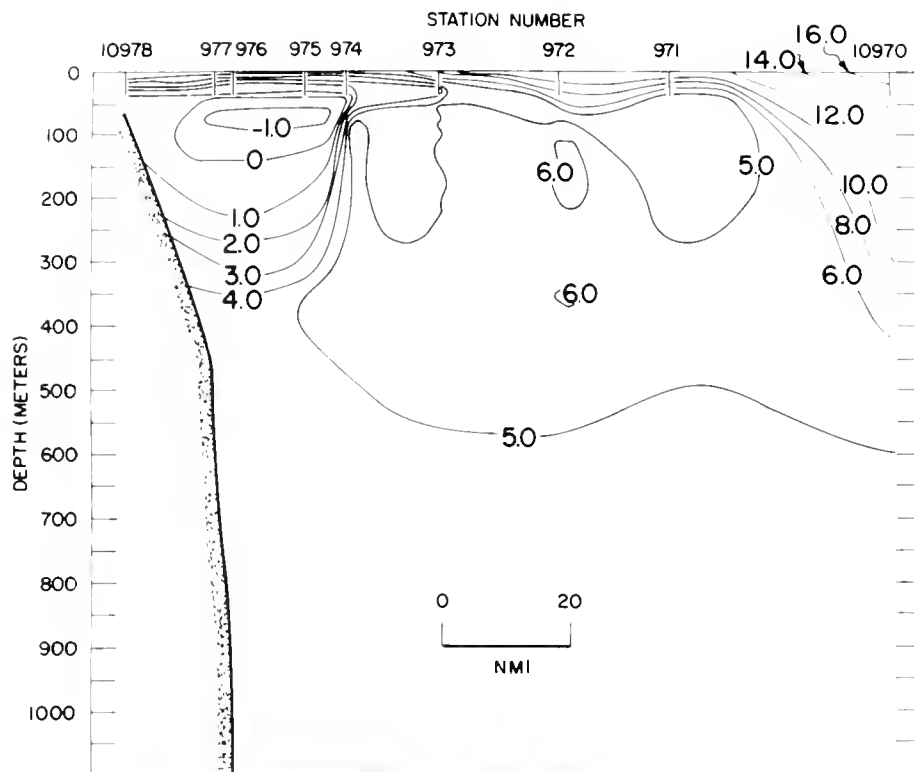


FIGURE 13. Vertical section of temperature ($^{\circ}\text{C}$) and salinity (‰) for standard section A3-2, occupied by CGC ROCKAWAY, 24 May 1971.

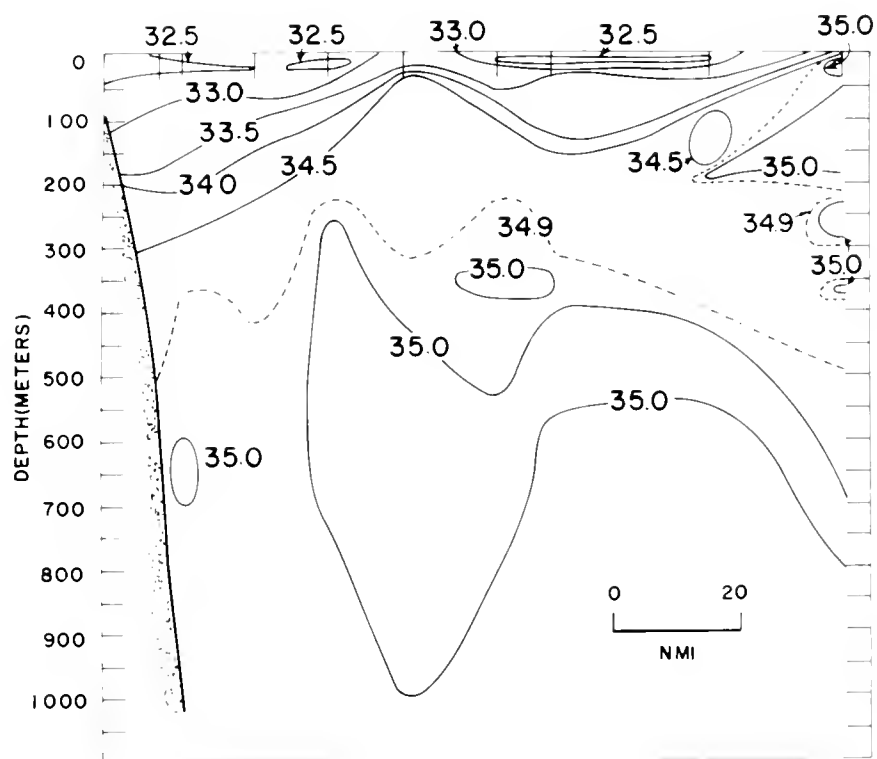
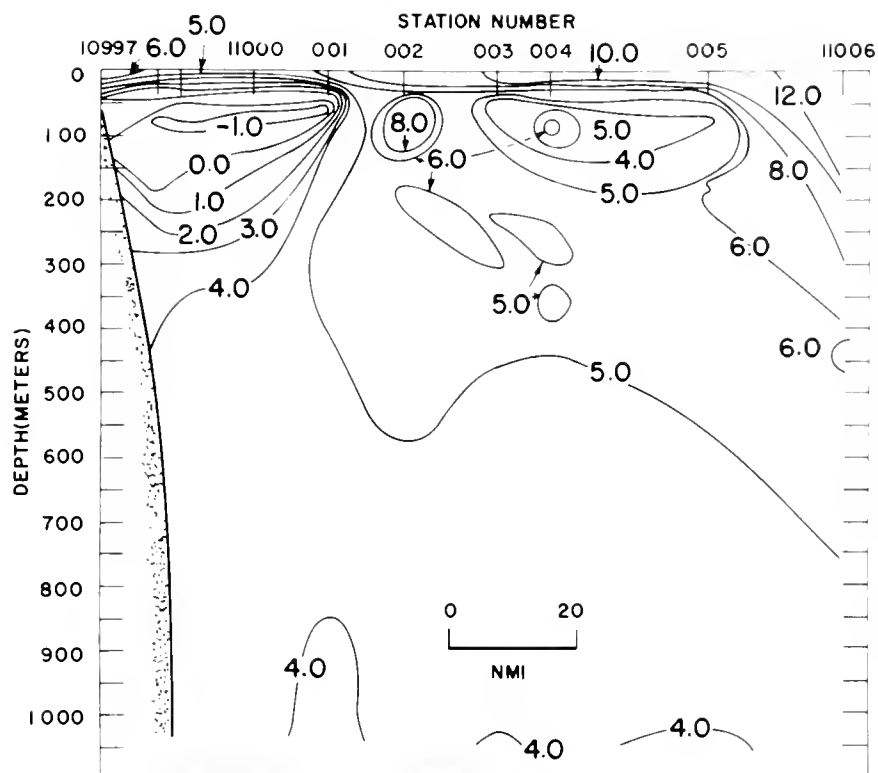


FIGURE 14. Vertical section of temperature (°C) and salinity (‰) for standard section A3-3, occupied by CGC ROCKAWAY, 27 May 1971.

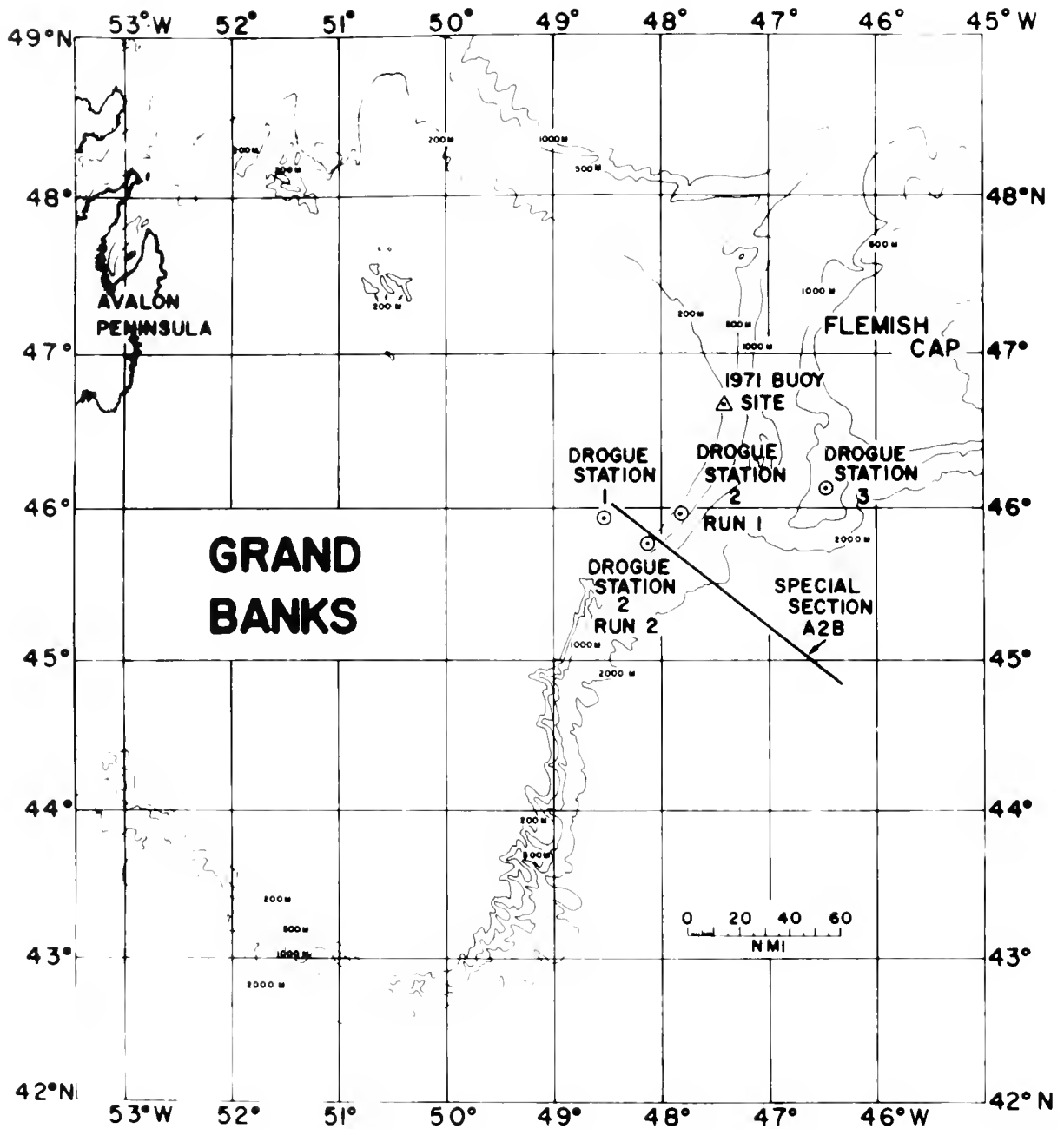


FIGURE 15. Location of the August 1971 parachute drogue stations, special section A2B, and the 1971 current meter buoy array site on the Grand Banks of Newfoundland.

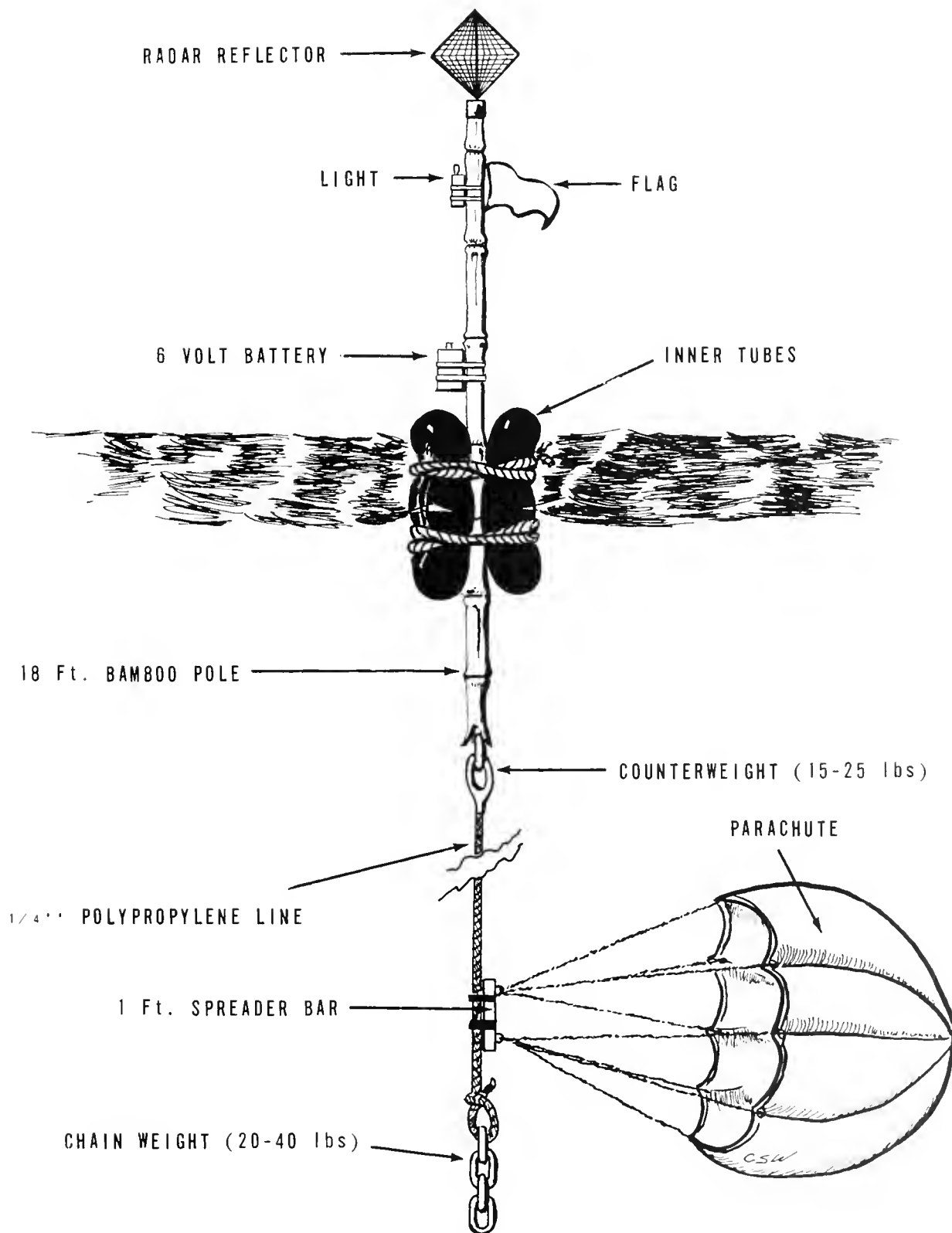


FIGURE 16. Schematic diagram of the parachute drogues used during the 1971 post-season cruise based on a design by Volkmann et al. (1956).

DISTANCE IN YARDS- NORTH

3500

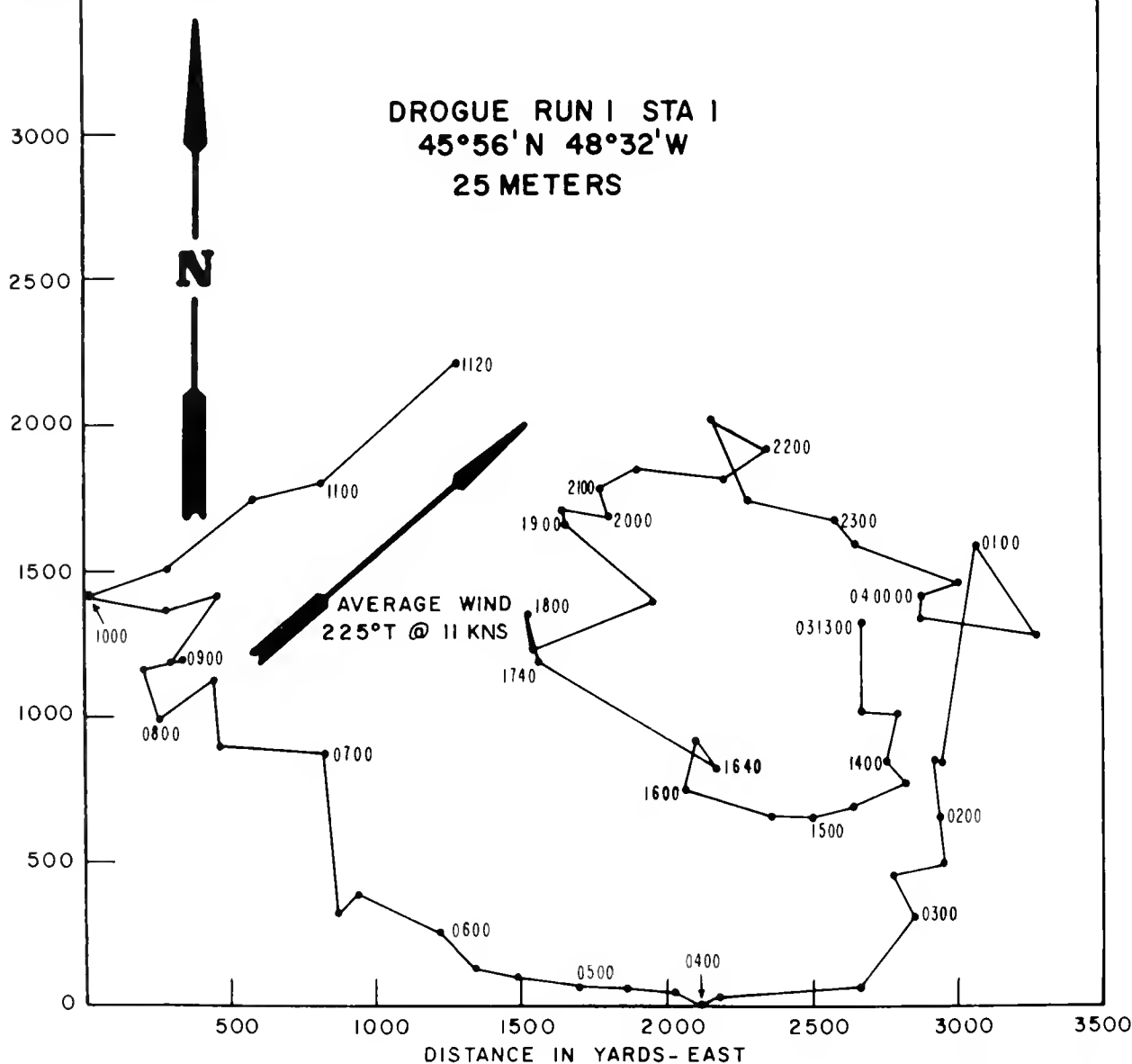


FIGURE 17. Parachute drogue trajectory at the 25 meter level at station 1. The drogue was tracked from 1300Z, 3 August to 1120Z, 4 August 1971.

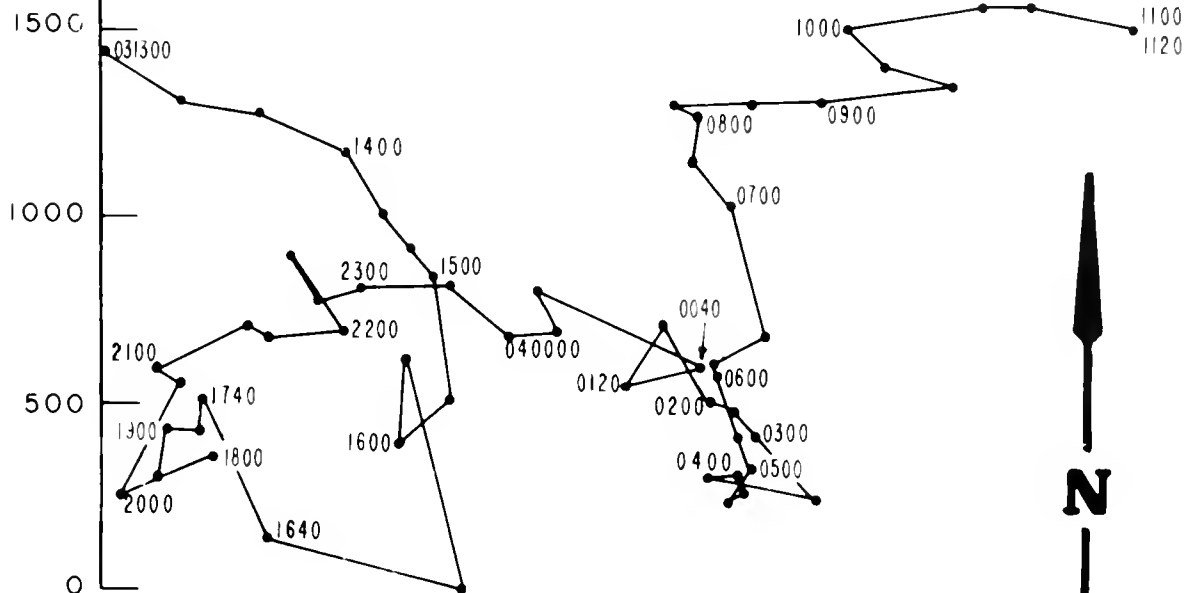
DISTANCE IN YARDS- NORTH

2000

DROGUE RUN I STA I

45°56'N 48°32'W

50 METERS



75 METERS

DISTANCE IN YARDS- NORTH

1500

1000

500

0

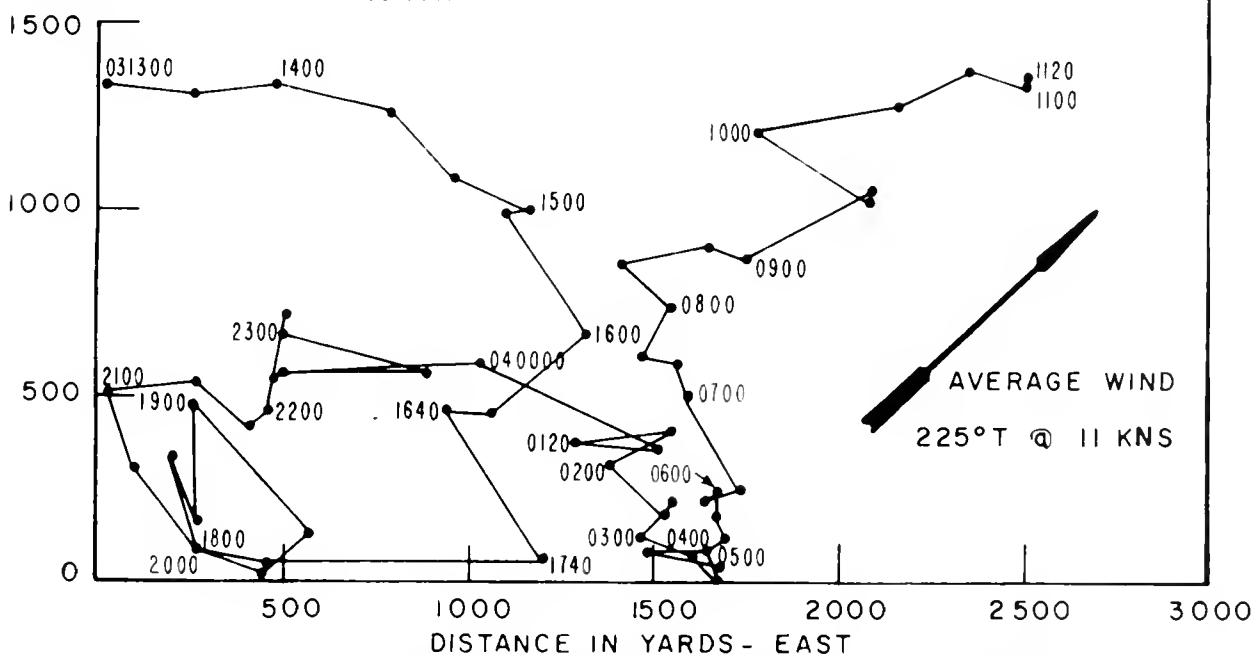


FIGURE 18. Parachute drogue trajectories at 50 and 75 meter levels at station 1. The drogues were tracked from 1300Z, 3 August to 1120Z, 4 August 1971.

DISTANCE IN YARDS NORTH ($\times 10^3$)

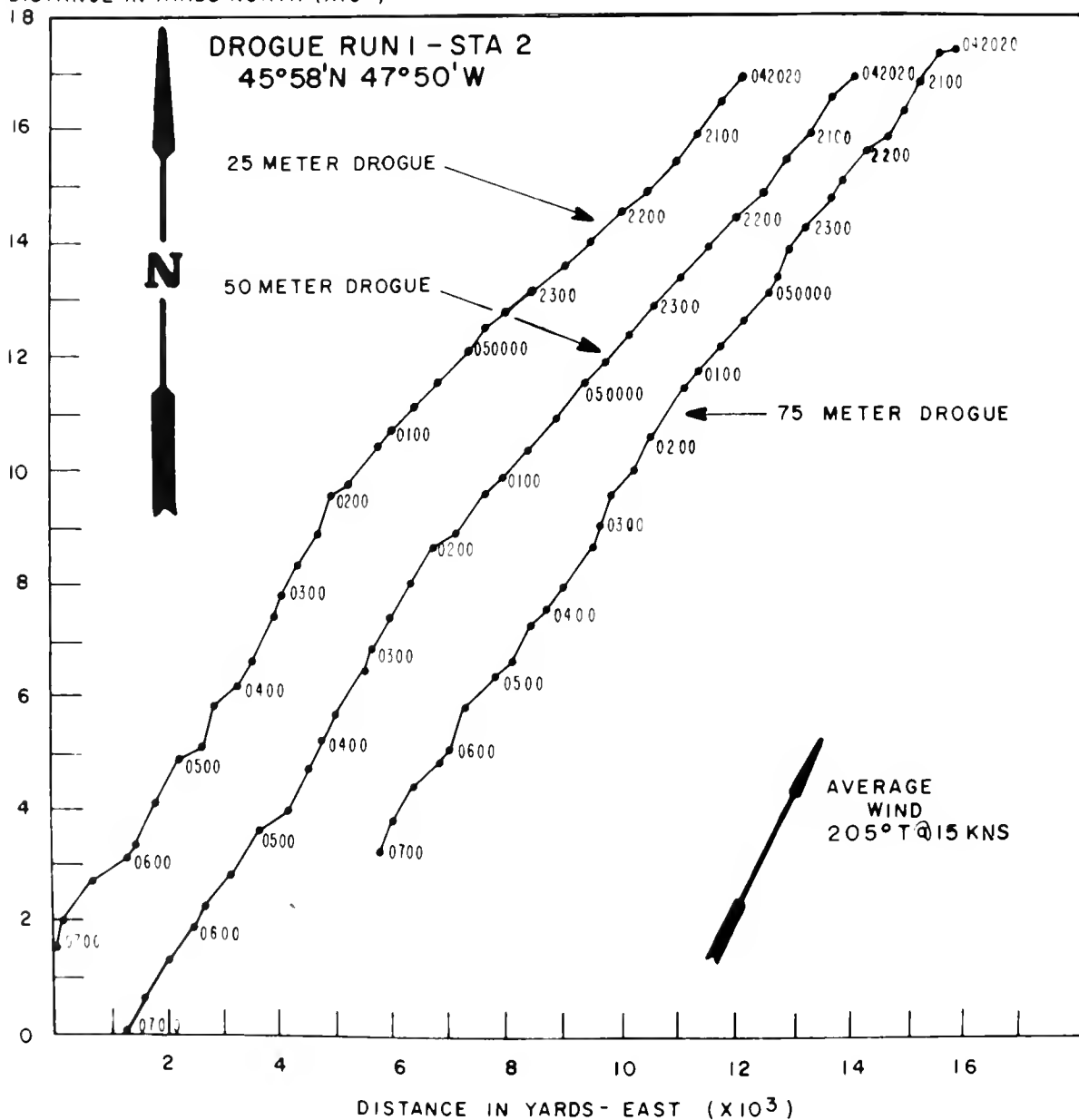


FIGURE 19. Parachute drogue trajectories at the 25, 50, and 75 meter levels at station 2, run 1. Drogues were tracked from 2020Z, 4 August to 0700Z, 5 August 1971.

DISTANCE IN YARDS- NORTH ($\times 10^3$)

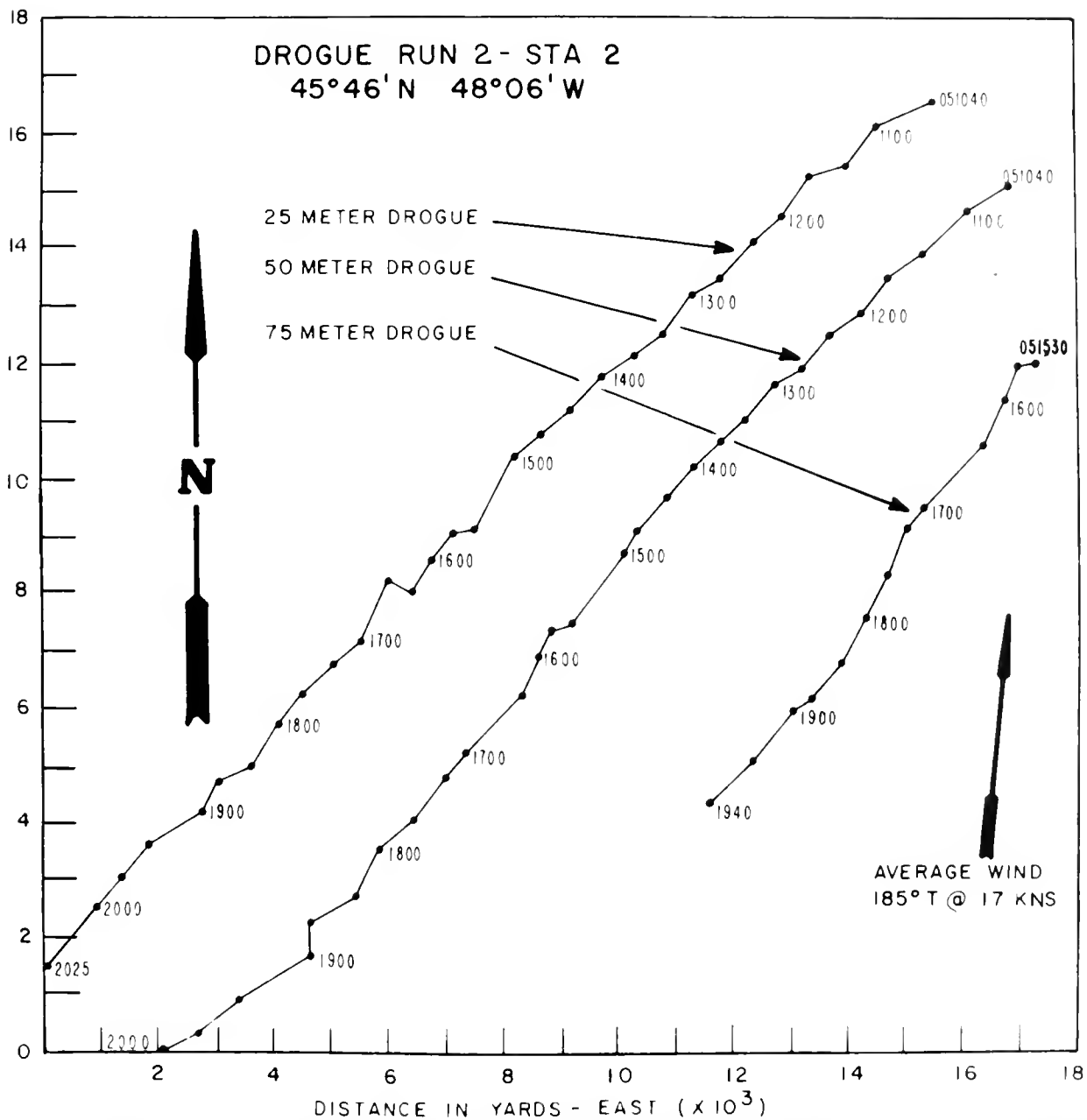


FIGURE 20. Parachute drogue trajectories at 25, 50, and 75 meter levels at station 2, run 2. Drogues were tracked from 1040Z-2025Z, 5 August 1971.

APPENDIX A

OCEANOGRAPHIC DATA

Cruises Listed

<i>Table</i>	<i>Page</i>
I. USCGC EVERGREEN, April 1971 -----	34
II. USCGC EVERGREEN, May 1971 -----	57
III. USCGC ROCKAWAY, May 1971 -----	88

Codes Utilized

To facilitate use of the oceanographic station data listing, entry headings which are not self-explanatory are described below.

Latitude -----Degrees and minutes of latitude.
 Longitude -----Degrees and minutes of longitude.
 Depth to bottom -----Uncorrected soundings in meters.

Wave observations:

DIR. -----Rounded to nearest multiple of 10 degrees.
 HGT. -----Increments of $\frac{1}{2}$ meter. Sum of 5 meters plus increments of $\frac{1}{2}$ meters if 50 is added to direction.
 PER. -----If numerals 2 through 9 are entered, period in seconds is either twice the numeric entry or 2X (numeric entry) +1. 0=20 or 21 sec. 1=over 21 seconds. X=calm or not determined.
 SEA -----Sea state according to WMO Code 3700.

<i>Code</i>	<i>Height</i>	<i>Code</i>	<i>Height</i>
0	0m	5	2.5-4m
1	0-0.1m	6	4-6m
2	0.1-0.5m	7	6-9m
3	0.5-1.25m	8	9-14m
4	1.25-2.5m	9	>14m

Weather Code -----Weather according to WMO Code 4501.

<i>Code</i>		<i>Code</i>	
0	Clear	5	Drizzle
1	Partly cloudy	6	Rain
2	Cont. layers of clouds	7	Snow and rain and snow mixed
3	Blowing snow, sandstorm, etc.	8	Shower(s)
4	Fog, haze, dust	9	Thunderstorm(s)

Cloud Code

Type ----- Cloud type according to WMO Code 0500.

<i>Code</i>	<i>Type</i>	<i>Code</i>	<i>Type</i>
0	Cirrus	5	Nimbostratus
1	Cirrocumulus	6	Stratocumulus
2	Cirrostratus	7	Stratus
3	Alto cumulus	8	Cumulus
4	Altostratus	9	Cumulonimbus

X Clouds not visible due to darkness, fog, or other analogous phenomena

Amount ----- Cloud amount in eighths. Entry of the numeral 9 indicates cloud amount could not be estimated.

Wind

Dir. ----- Rounded to nearest multiple of 10 degrees.

Speed ----- Wind speed in knots.

Barometer ----- Barometric pressure given in tens, units, and tenths of millibars.

Vis. Code ----- Visibility according to WMO Code 4300.

<i>Code</i>	<i>Visibility</i>	<i>Code</i>	<i>Visibility</i>
0	Less than 50m	5	2-4km
1	50-200m	6	4-10km
2	200-500m	7	10-20km
3	500-1000m	8	20-50km
4	1-2km	9	50km or more

Dyn. Ht. ----- Dynamic height in dynamic meters with respect to 1000 decibar reference surface.

Messenger time ----- Entered in hours and tenths of an hour. Indicates the starting time for lowering the STD sensor.

Depth ----- Depth to nearest meter.

Temp. ----- Temperature to hundredths of a degree Celsius.

Sal. ----- Salinity to hundredths of a part per thousand.

Sig-t ----- Sigma-t value.

TABLE 1. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 56.0N	048 26.0W	04	05	05.0	1971	10808	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0104	17	1	2		X2	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY RULE	WET RULE	VIS CODE	DYN HT	
16	10	254	02.	01.		971.104	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
05.0		0	0.21	32.670	26.24
.		4	0.20	32.670	26.24
00.1		10	0.05	32.640	26.22
.		13	0.26	32.660	26.25
.		20	0.27	32.670	26.26
.		30	0.29	32.670	26.26
.		50	0.69	32.700	26.30
.		75	0.93	32.820	26.41
.		79	0.92	32.920	26.49
.		80	0.98	32.960	26.52
.		84	0.80	32.930	26.49

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 55.0N	048 06.0W	04	05	06.7	1971	10809	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0124	12	1	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DFG C				
DIP	SPEED		DRY RULR	WET RULR	VIS CODE	DYN HT	
13	10	288	03.	02.		971.009	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
06.7		0	0.18	32.750	26.32
.		6	0.18	32.750	26.32
00.1		10	0.18	32.750	26.32
.		12	0.18	32.740	26.31
.		20	0.50	32.740	26.33
.		30	0.57	32.710	26.31
.		50	0.63	32.720	26.32
.		75	0.79	32.730	26.33
.		87	0.96	32.890	26.46
.		100	0.63	33.100	26.62
.		110	0.21	33.310	26.77

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 56.0N	047 47.0W	04	05	08.2	1971	10810	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0163	09	0	4		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY RULE	WET RULE	VIS CODE	DYN HT	
13	10	278	03.	02.			971.101

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
08.2		0	0.42	32.670	26.27
.		10	0.61	32.640	26.25
00.2		15	0.68	32.650	26.26
.		20	0.71	32.650	26.26
.		30	0.73	32.640	26.26
.		37	1.02	32.660	26.28
.		50	1.05	32.660	26.28
.		55	1.06	32.680	26.30
.		65	1.34	32.740	26.35
.		75	1.08	32.920	26.49
.		82	0.89	32.990	26.54
.		95	0.81	33.020	26.56
.		100	0.88	33.070	26.61
.		105	0.95	33.110	26.64
.		121	0.56	33.300	26.78
.		125	0.04	33.390	26.83
.		140	0.36	33.470	26.88
.		150	0.32	33.510	26.91

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 54.0N	047 30.0W	04	05	09.6	1971	10811	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0205	12	0	2		X1	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
09	10	939	02.	01.		971.102	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
09.6		6	0.66	32.630	26.24
.		10	0.66	32.630	26.24
00.1		12	0.66	32.630	26.24
.		20	0.83	32.610	26.23
.		30	0.97	32.640	26.26
.		50	1.13	32.660	26.28
.		75	1.27	32.780	26.39
.		83	1.26	32.840	26.43
.		100	0.95	32.950	26.51
.		125	0.12	33.350	26.80
.		137	0.23	33.470	26.88
.		141	0.09	33.510	26.92
.		150	0.48	33.560	26.94
.		197	0.76	33.650	27.00

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 56.0N	047 21.0W	04	05	10.9	1971	10812	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0329	12	0	2		X1	0	6
WIND		BARO-METER (HGS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
13	11	278	02.	02.			971.069
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
10.7		0	0.71	32.650	26.28		
.		10	0.77	32.650	26.26		
00.1		20	0.84	32.640	26.26		
.		27	0.95	32.650	26.27		
.		30	0.95	32.640	26.28		
.		40	0.86	32.640	26.28		
.		50	0.87	32.650	26.27		
.		60	1.50	32.650	26.29		
.		73	1.39	32.950	26.53		
.		75	1.36	32.930	26.51		
.		90	0.49	33.200	26.70		
.		100	0.46	33.220	26.71		
.		110	0.55	33.540	26.97		
.		115	0.14	33.560	26.96		
.		125	0.26	33.640	27.02		
.		140	0.71	33.650	27.00		
.		150	0.77	33.730	27.06		
.		200	1.75	34.110	27.30		
.		250	2.46	34.320	27.41		
.		300	2.97	34.470	27.49		
.		321	3.10	34.930	27.52		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 55.0N	047 01.0W	04	05	12.8	1971	10814	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1079	12	0	2		X1	0	6
WIND		BARO-METER (HGS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	08	278	03.	03.		971.011	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
12.7		0	0.71	32.800	26.38		
.		10	0.74	32.810	26.39		
00.2		20	0.83	32.800	26.39		
.		30	0.87	32.800	26.39		
.		50	0.96	32.800	26.39		
.		67	1.22	33.070	26.62		
.		75	1.20	33.760	26.85		
.		77	1.00	33.370	26.85		
.		90	0.82	33.490	26.94		
.		100	0.21	33.690	27.06		
.		110	0.26	33.690	27.08		
.		118	0.16	33.650	27.05		
.		122	0.44	33.770	27.16		
.		125	0.16	33.790	27.16		
.		133	0.07	33.830	27.19		
.		150	0.59	34.000	27.29		
.		200	2.49	34.340	27.43		
.		250	3.61	34.680	27.58		
.		300	4.13	34.800	27.64		
.		400	4.44	34.890	27.67		
.		500	4.46	34.920	27.69		
.		600	4.45	34.930	27.70		
.		700	4.39	34.940	27.72		
.		753	4.31	34.950	27.73		
.		800	4.28	34.940	27.73		
.		900	4.15	34.950	27.75		
.		1000	4.06	34.960	27.77		
.		1080	3.99	34.960	27.78		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 56.0N	047 14.0W	04	05	12.2	1971	10813	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0788	12	0	2		X1	0	6
WIND		BARO-METER (HGS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	08	278	02.	03.		971.025	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
11.7		6	0.53	32.740	26.33		
.		10	0.91	32.750	26.35		
00.1		20	1.17	32.740	26.35		
.		25	1.22	32.760	26.37		
.		30	1.22	32.764	26.37		
.		36	1.22	32.780	26.38		
.		43	1.36	32.820	26.50		
.		50	1.27	32.990	26.56		
.		75	0.34	33.440	26.85		
.		82	0.45	33.470	26.87		
.		95	0.26	33.560	26.98		
.		100	0.11	33.640	27.04		
.		110	0.19	33.590	26.98		
.		125	0.07	33.690	27.07		
.		130	0.13	33.710	27.08		
.		137	0.07	33.740	27.11		
.		150	1.24	33.820	27.10		
.		200	2.63	34.380	27.45		
.		250	3.37	34.560	27.52		
.		300	3.87	34.730	27.61		
.		400	4.37	34.860	27.66		
.		500	4.47	34.900	27.68		
.		700	4.42	33.940	28.01		
.		800	4.46	34.930	27.70		
.		775	4.30	34.950	27.73		

LATITUDE		LONGITUDE	STATION TIME			YEAR	STATION NUMBER
			(GMT)				
		MO.	DAY	HR.			
46 55.0N		046 41.0W	04	05	15.0	1971	10815
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1152	12	0	2		X1	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	08	278	03.	03.	970.930		
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
15.0		6	1.09	33.350	26.74		
.		10	1.05	33.450	26.82		
00.4		20	1.05	33.450	26.82		
.		30	1.06	33.450	26.82		
.		43	1.22	33.560	26.90		
.		50	0.86	33.510	26.88		
.		60	0.62	33.760	27.09		
.		70	0.89	33.910	27.20		
.		75	0.91	33.910	27.20		
.		83	0.94	33.970	27.24		
.		100	1.39	34.010	27.25		
.		125	2.81	34.290	27.36		
.		150	3.68	34.570	27.50		
.		190	4.13	34.740	27.59		
.		200	4.19	34.750	27.59		
.		225	4.23	34.800	27.62		
.		250	4.53	34.870	27.65		
.		300	4.62	34.900	27.68		
.		320	4.61	34.900	27.68		
.		350	4.49	34.900	27.68		
.		400	4.51	34.930	27.70		
.		500	4.38	34.930	27.71		
.		600	4.23	34.930	27.73		
.		700	4.11	34.930	27.74		
.		800	4.03	34.940	27.76		
.		900	3.98	34.940	27.76		
.		1000	3.92	34.940	27.77		
.		1100	3.80	34.940	27.78		
.		1110	3.78	34.940	27.78		

TABLE 1. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 56.0N	046 24.0W	04	05	17.0	1971	10816	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0410	12	0	2		X0	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
13	10	261	05.	04.		970.917	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
17.0		0	1.01	33.320	26.72
.		5	0.77	33.300	26.72
00.3		10	0.69	33.310	26.73
.		20	0.65	33.350	26.76
.		30	0.67	33.380	26.79
.		40	0.33	33.580	26.97
.		50	0.45	33.620	26.99
.		60	0.98	33.820	27.12
.		75	1.15	33.930	27.20
.		100	2.04	34.170	27.33
.		125	3.13	34.520	27.51
.		150	3.91	34.660	27.55
.		167	4.47	34.780	27.58
.		180	4.57	34.780	27.57
.		190	4.45	34.800	27.60
.		200	4.63	34.850	27.62
.		209	4.79	34.860	27.61
.		225	4.87	34.910	27.64
.		250	4.67	34.870	27.63
.		268	4.53	34.870	27.65
.		300	4.54	34.880	27.65
.		350	4.54	34.890	27.66
.		370	4.32	34.890	27.69
.		388	4.27	34.890	27.69

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 57.0N	045 50.0W	04	05	20.7	1971	10819	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0298	12	1	2		X1	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	OYN HT	
14	12	247	06.	05.	970.947		

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
20.7		0	3.34	33.700	26.84
.		10	3.07	33.630	26.81
.		30	2.88	33.680	26.87
00.3		20	2.98	33.680	26.86
.		50	2.86	33.690	26.88
.		75	2.28	33.690	26.92
.		89	2.21	33.790	27.01
.		100	2.33	33.800	27.01
.		106	2.33	33.830	27.03
.		115	1.49	33.820	27.09
.		120	2.04	33.980	27.17
.		125	2.04	33.980	27.17
.		130	2.04	34.030	27.21
.		147	2.75	34.190	27.28
.		150	2.19	34.170	27.31
.		180	4.01	34.630	27.51
.		200	4.09	34.700	27.56
.		250	4.20	34.830	27.65

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER
				MO.	DAY	HR.		
46 56.0N		046 06.0W		04	05	19.1	1971	10817
DEPTH TO BOTTOM	WAVE OBSERVATIONS					WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA	TYPE		AMT.	
0293		08	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C					
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT		
14	10	254	07.	06.			970.939	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
19.1		0	1.67	33.400	26.74
.		10	1.37	33.330	26.70
00.1		20	1.05	33.400	26.78
.		30	0.94	33.410	26.79
.		38	0.91	33.440	26.82
.		48	1.34	33.510	26.85
.		50	1.26	33.500	26.85
.		72	0.67	33.650	27.00
.		75	0.68	33.770	27.10
.		80	0.86	33.770	27.09
.		100	2.09	34.020	27.20
.		125	4.26	34.340	27.26
.		129	3.95	34.400	27.34
.		133	4.37	34.560	27.42
.		150	4.76	34.610	27.42
.		172	4.76	34.640	27.44
.		190	4.31	34.680	27.52
.		200	4.47	34.710	27.53
.		215	4.48	34.740	27.55
.		220	4.43	34.750	27.56
.		250	4.43	34.840	27.63
.		272	4.37	34.850	27.65

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 20.0N	045 50.0W	04	05	23.2	1971	10819	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0302	12	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	10	247	06.	05.		970.925	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
23.2		285	4.23	34.860	27.67
.		0	2.84	33.640	26.84
.		6	2.84	33.640	26.84
00.1		10	2.77	33.550	26.77
.		15	2.41	33.580	26.83
.		20	2.31	33.590	26.84
.		30	2.25	33.590	26.85
.		40	2.16	33.650	26.90
.		50	2.28	33.660	26.90
.		68	2.24	33.640	26.89
.		75	1.76	33.690	26.96
.		77	1.74	33.970	27.19
.		100	2.68	34.100	27.22
.		120	4.22	34.420	27.32
.		125	3.77	34.270	27.25
.		127	3.69	34.510	27.45
.		130	3.84	34.440	27.38
.		133	3.69	34.360	27.33
.		150	4.03	34.650	27.53
.		175	4.32	34.750	27.58
.		200	4.33	34.780	27.60
.		250	4.29	34.840	27.65
.		288	4.26	34.880	27.68

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 39.0N	045 51.0W	04	06	01.0	1971	10820	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0347	16	0	2		X1	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	08	247	06.	05.		970.922	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
01.0	.	6	1.59	33.390	26.74		
.	.	10	1.33	33.430	26.79		
00.2	.	11	1.28	33.430	26.79		
.	.	20	1.26	33.450	26.81		
.	.	30	1.22	33.470	26.82		
.	.	40	1.31	33.500	26.91		
.	.	50	1.33	33.640	26.95		
.	.	56	1.34	33.680	26.98		
.	.	75	1.73	33.850	27.09		
.	.	100	2.75	34.210	27.30		
.	.	125	3.47	34.460	27.43		
.	.	150	4.14	34.670	27.53		
.	.	200	4.36	34.840	27.64		
.	.	250	4.89	34.960	27.68		
.	.	256	4.93	34.960	27.67		
.	.	294	4.57	34.920	27.68		
.	.	300	4.57	34.930	27.69		
.	.	325	4.56	34.930	27.69		
.	.	335	4.54	34.930	27.69		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 30.0N	045 52.0W	04	06	07.5	1971	10822	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1110	04	1	2		X6	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
18	13	210	04.	03.		970.925	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
06.8		6	0.33	33.410	26.83		
.		10	0.33	33.410	26.83		
00.3		20	0.33	33.410	26.83		
.		30	0.33	33.420	26.85		
.		45	0.33	33.490	26.91		
.		50	0.05	33.610	27.00		
.		75	1.58	34.110	27.31		
.		100	2.28	34.350	27.45		
.		125	3.27	34.560	27.53		
.		150	3.53	34.620	27.55		
.		200	3.93	34.740	27.61		
.		250	4.01	34.760	27.62		
.		300	4.19	34.840	27.66		
.		400	4.40	34.890	27.68		
.		500	4.40	34.910	27.69		
.		600	4.40	34.930	27.71		
.		700	4.30	34.940	27.73		
.		800	4.14	34.940	27.75		
.		900	4.04	34.940	27.76		
.		1000	3.94	34.940	27.77		
.		1100	3.85	34.940	27.78		

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER
				MO.	DAY	HR.		
48 00.0N		045 52.0W		04	06	03.5	1971	10821
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		
	DIR	HGT	PER	SEA		TYPE	AMT.	
0644	04	0	2		X1	0	6	
WIND		BARO-METER (HRS)		AIR TEMP DEG C				
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT	
16	08	240		05.	04.	970.920		
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T			
03.5		6	0.98	33.450	26.82			
.		10	0.98	33.470	26.84			
00.1		15	1.07	33.500	26.86			
.		20	1.07	33.530	26.88			
.		30	1.03	33.540	26.89			
.		45	1.02	33.560	26.91			
.		50	0.95	33.610	26.95			
.		58	0.95	33.800	27.11			
.		75	1.66	33.980	27.20			
.		83	1.75	33.980	27.20			
.		90	1.73	33.970	27.19			
.		100	1.95	34.090	27.27			
.		125	2.77	34.290	27.36			
.		150	3.53	34.590	27.53			
.		200	4.03	34.780	27.63			
.		250	4.21	34.840	27.66			
.		300	4.32	34.880	27.68			
.		400	4.32	34.890	27.69			
.		500	4.19	34.910	27.72			
.		600	4.15	34.920	27.73			
.		840	4.08	34.930	27.74			

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 50.0N	046 03.0W	04	06	21.0	1971	10823	
DEPTH TO BOTTOM	WAVE	OBSERVATIONS			WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1554	36	3	2		X4	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
35	18	203	04.	04.		971.047	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
21.2		9	4.31	33.250	26.39		
.		10	4.31	33.250	26.39		
00.3		20	4.32	33.250	26.39		
.		30	4.30	33.260	26.40		
.		50	4.42	33.360	26.46		
.		65	3.48	33.510	26.68		
.		75	4.65	33.720	26.72		
.		100	6.86	34.450	27.03		
.		112	7.26	34.550	27.05		
.		120	6.82	34.470	27.05		
.		125	6.78	34.480	27.06		
.		139	6.47	34.530	27.14		
.		142	6.57	34.560	27.15		
.		150	6.43	34.560	27.17		
.		152	6.20	34.570	27.21		
.		175	6.99	34.790	27.28		
.		185	6.66	34.820	27.34		
.		200	6.81	34.920	27.40		
.		250	6.30	34.840	27.41		
.		300	5.71	34.840	27.48		
.		358	4.81	34.850	27.60		
.		400	5.03	34.920	27.63		
.		419	5.16	34.910	27.61		
.		440	4.96	34.910	27.63		
.		481	4.26	34.940	27.67		
.		500	4.85	34.940	27.67		
.		600	4.50	34.930	27.70		
.		700	4.28	34.930	27.72		
.		800	4.18	34.940	27.74		
.		900	4.01	34.940	27.76		
.		1000	4.01	34.950	27.77		
.		1054	3.98	34.950	27.77		

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 56.0N	046 31.0W	04	07	00.3	1971	10R24	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0549	35	2	2		X2	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
35	20	224	02.	02.		971.007	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
00.6		11	3.75	33.230	26.43		
.		20	3.75	33.240	26.43		
00.1		30	3.70	33.250	26.45		
.		36	3.37	33.370	26.57		
.		41	3.37	33.440	26.63		
.		50	4.40	33.710	26.74		
.		70	6.80	34.410	27.00		
.		75	6.66	34.510	27.10		
.		79	6.96	34.520	27.07		
.		100	6.09	34.440	27.12		
.		104	6.09	34.440	27.12		
.		110	6.06	34.460	27.14		
.		125	7.30	34.840	27.27		
.		150	4.71	34.430	27.28		
.		200	6.20	34.900	27.47		
.		210	6.25	34.900	27.46		
.		250	6.15	34.900	27.48		
.		275	5.58	34.890	27.54		
.		298	5.35	34.850	27.54		
.		300	5.35	34.850	27.54		
.		341	4.91	34.860	27.60		
.		360	5.13	34.926	27.62		
.		389	4.85	34.910	27.64		
.		400	4.89	34.920	27.65		
.		481	4.88	34.950	27.67		
.		500	4.65	34.930	27.68		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 05.0N	047 04.0W	04	07	05.3	1971	10R26	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1463	35	0	2		X1	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
35	20	234	00.	.		970.960	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
05.3		0	0.25	33.240	26.70		
.		10	0.25	33.240	26.70		
00.3		20	0.25	33.250	26.70		
.		30	0.25	33.240	26.70		
.		41	0.18	33.570	26.97		
.		50	0.80	33.570	26.93		
.		75	1.30	33.800	27.08		
.		100	2.09	34.030	27.21		
.		125	2.16	34.100	27.26		
.		142	3.25	34.440	27.44		
.		150	3.09	34.430	27.44		
.		200	3.66	34.630	27.55		
.		250	4.13	34.770	27.61		
.		300	4.30	34.860	27.66		
.		400	4.45	34.890	27.67		
.		500	4.45	34.910	27.69		
.		600	4.40	34.920	27.70		
.		700	4.27	34.930	27.72		
.		800	4.18	34.940	27.74		
.		900	4.11	34.930	27.74		
.		1000	3.99	34.940	27.76		
.		1029	3.98	34.940	27.76		

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER	
				MO.	DAY	HR.			
46 01.0N		046 49.0W		04	07	02.5	1971	10R25	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			
	DIR	HGT	PER	SEA		TYPE	AMT.		
1401	34	2	2		X2	0	6		
WIND		BARO-METER (HRS)		AIR TEMP DEG C					
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT		
35	21	244		01.	.		970.985		
MESSENGER TIME	CAST NO.	DEPTH		TEMP	SAL	SIG-T			
02.5		0		3.93	33.320	26.48			
.		10		3.93	33.330	26.49			
00.4		20		3.93	33.330	26.49			
.		30		3.45	33.250	26.47			
.		35		3.21	33.330	26.56			
.		45		3.21	33.530	26.72			
.		50		3.55	33.570	26.72			
.		65		5.33	34.100	26.95			
.		75		4.91	34.160	27.04			
.		95		5.63	34.490	27.22			
.		100		5.30	34.370	27.16			
.		115		6.00	34.590	27.25			
.		125		5.58	34.530	27.26			
.		150		4.96	34.550	27.34			
.		158		5.08	34.580	27.35			
.		170		5.01	34.610	27.39			
.		177		4.85	34.660	27.44			
.		200		5.61	34.870	27.52			
.		211		6.03	34.880	27.48			
.		240		4.95	34.790	27.54			
.		250		4.94	34.800	27.55			
.		300		4.81	34.850	27.60			
.		400		4.67	34.900	27.66			
.		500		4.65	34.940	27.71			
.		600		4.60	34.960	27.71			
.		700		4.17	34.930	27.73			
.		800		4.06	34.940	27.75			
.		900		3.99	34.940	27.76			
.		1000		3.95	34.940	27.77			
.		1030		3.91	34.940	27.77			

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER	
				MO.	DAY	HR.			
46 04.0N		047 16.0W		04	07	07.3	1971	10R27	
DEPTH TO BOTTOM		WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		
		DIR	HGT	PER	SEA		TYPE	AMT.	
0804		35	0	2		X0	0	6	
WIND		BARO-METER (HRS)		AIR TEMP DEG C					
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT		
35	25	257		00.	.	971.015			
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T				
07.5		0	0.79	32.980	26.53				
.		10	0.79	32.980	26.53				
00.3		20	0.79	32.980	26.53				
.		30	0.79	32.980	26.53				
.		39	0.79	32.980	26.53				
.		50	1.47	32.980	26.55				
.		55	1.14	33.050	26.60				
.		62	1.14	33.100	26.64				
.		75	0.69	33.320	26.80				
.		84	0.77	33.410	26.88				
.		98	0.35	33.490	26.89				
.		100	0.32	33.510	26.91				
.		102	0.28	33.530	26.93				
.		111	0.52	33.590	26.96				
.		125	0.93	33.580	27.02				
.		150	0.65	33.980	27.27				
.		175	1.98	34.200	27.35				
.		183	1.95	34.220	27.37				
.		200	2.21	34.330	27.44				
.		250	3.79	34.690	27.58				
.		300	4.17	34.790	27.62				
.		400	4.46	34.870	27.65				
.		500	4.46	34.900	27.68				
.		523	4.44	34.910	27.69				
.		582	4.45	34.910	27.69				

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 14.0N	047 38.0W	04	07	09.9	1971	10A28	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0203	31	1	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
34	10	278	01.	00.		971.116	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
09.9		0	0.59	32.780	26.36		
.		10	0.59	32.780	26.36		
00.1		20	0.59	32.780	26.36		
.		25	0.59	32.780	26.36		
.		30	0.70	32.810	26.39		
.		45	0.77	32.840	26.42		
.		50	0.97	32.840	26.42		
.		57	1.21	32.980	26.55		
.		62	0.91	33.100	26.63		
.		75	0.77	33.140	26.66		
.		100	0.01	33.320	26.77		
.		119	0.40	33.550	26.94		
.		125	0.40	33.550	26.94		
.		150	0.41	33.550	26.94		
.		187	0.49	33.590	26.96		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 17.0N	047 50.0W	04	07	11.3	1971	10A29	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0143	30	1	2		X1	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
31	06	278	01.	00.		971.127	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
11.3		0	0.28	32.830	26.39		
.		10	0.28	32.830	26.39		
00.1		20	0.28	32.820	26.38		
.		30	0.30	32.830	26.39		
.		37	0.55	32.840	26.41		
.		50	0.63	32.860	26.43		
.		75	0.74	32.880	26.45		
.		76	0.78	32.880	26.45		
.		83	1.15	32.920	26.49		
.		90	1.15	33.070	26.62		
.		100	1.00	33.110	26.64		
.		125	0.14	33.390	26.84		
.		132	0.10	33.390	26.83		

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMFR	
				MO.	DAY	HR.			
46 22.0N		048 03.0W		04	07	12.3	1971	10R30	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			
	DIR	HGT	PER	SEA		TYPE	AMT.		
0117		33	2	2		X1	0	6	
WIND		BARO-METER (MRS)		AIR TEMP DEG C					
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT		
33		10		298		04.	02.		971.127
MESSENGER TIME	CAST NO.	DEPTH		TEMP		SAL		SIG-T	
12.3		0		0.17		32.850		26.40	
.		10		0.19		32.850		26.40	
00.1		20		0.20		32.830		26.39	
.		30		0.21		32.830		26.39	
.		37		0.23		32.830		26.39	
.		50		0.57		32.830		26.40	
.		65		0.62		32.850		26.42	
.		75		1.13		32.930		26.50	
.		77		1.14		33.030		26.58	
.		100		0.75		33.210		26.72	

LATITUDE		LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
			MO.	DAY	HR.			
46 27.0N		048 18.0W		04	07	13.8	1971	10A31
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		
	DIR	HGT	PER	SEA		TYPE	AMT.	
0101		27	0	2		X0	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C					
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT		
27		08	308	04.	03.		971.141	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T			
13.8		0	0.44	32.660	26.22			
.		10	0.40	32.660	26.22			
00.1		20	0.36	32.660	26.22			
.		25	0.34	32.650	26.22			
.		30	0.21	32.640	26.22			
.		39	0.17	32.680	26.27			
.		50	0.21	32.700	26.28			
.		70	0.73	32.880	26.45			
.		75	0.74	32.880	26.45			
.		93	0.75	32.900	26.47			

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 29.0N	048 30.0W	04	07	15.2	1971	10832	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0099	26	0	2		X0	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
26	05	301	03.	02.		971.149	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
15.2		0	1.06	32.480	26.04		
.		5	0.95	32.490	26.06		
00.1		10	0.73	32.530	26.10		
.		20	0.48	32.540	26.12		
.		30	0.20	32.570	26.16		
.		45	0.14	32.600	26.19		
.		50	0.01	32.620	26.21		
.		58	0.14	32.710	26.29		
.		69	0.68	32.800	26.38		
.		75	0.70	32.810	26.39		
.		86	0.72	32.810	26.39		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 56.0N	048 20.0W	04	07	19.0	1971	10834	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0104	26	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
23	05	301	04.	03.		971.126	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
19.1		0	0.87	32.680	26.21		
.		5	0.32	32.740	26.29		
00.1		10	0.23	32.740	26.29		
.		15	0.18	32.740	26.30		
.		20	0.03	32.740	26.31		
.		25	0.22	32.790	26.36		
.		30	0.27	32.800	26.37		
.		40	0.34	32.810	26.38		
.		50	0.53	32.860	26.43		
.		55	0.68	32.970	26.52		
.		75	0.69	32.980	26.53		
.		87	0.69	33.020	26.56		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 01.0N	048 30.0W	04	07	17.8	1971	10833	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0091	26	0	2		X1	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
23	05	301	04.	03.		971.137	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
17.8		0	1.21	32.500	26.05		
		2	1.08	32.520	26.07		
00.1		10	0.97	32.520	26.08		
.		20	0.55	32.530	26.11		
.		23	0.08	32.580	26.17		
.		30	0.07	32.650	26.24		
.		48	0.30	32.770	26.34		
.		50	0.42	32.790	26.36		
.		60	0.66	32.860	26.43		
.		75	0.69	32.980	26.45		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 47.0N	048 06.0W	04	07	20.4	1971	10835	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0260	26	0	2		X1	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY AULA	WET AULA	VIS CODE	DYN HT	
23	05	301	04.	03.		971.121	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
20.5		0	0.31	32.740	26.32		
.		10	0.53	32.750	26.34		
00.1		20	0.61	32.760	26.35		
.		30	0.62	32.740	26.33		
.		44	0.67	32.760	26.35		
.		50	0.74	32.770	26.36		
.		68	1.13	32.960	26.53		
.		75	1.06	32.980	26.54		
.		100	0.45	33.080	26.60		
.		125	0.13	33.250	26.72		
.		145	0.36	33.440	26.85		
.		150	0.37	33.450	26.86		
.		158	0.37	33.490	26.89		
.		175	0.52	33.530	26.91		
.		200	0.64	33.580	26.95		
.		222	0.86	33.700	27.03		

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 42.0N	047 56.0W	04	07	21.6	1971	10836	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0965	26	0	2		X1	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	OYN MT	
17	08	312	02.	02.		971.041	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIB-T		
21.6		0	0.27	32.810	26.37		
.		10	0.60	32.610	26.39		
00.2		20	0.69	32.820	26.40		
.		30	0.78	32.820	26.40		
.		37	0.92	32.830	26.41		
.		48	0.92	32.850	26.43		
.		50	0.95	32.860	26.44		
.		75	1.31	33.040	26.60		
.		100	0.00	33.460	26.89		
.		125	0.68	33.620	26.98		
.		150	1.04	33.820	27.12		
.		180	1.37	34.110	27.33		
.		191	2.40	34.320	27.42		
.		200	2.43	34.320	27.41		
.		250	3.24	34.540	27.51		
.		300	3.85	34.690	27.56		
.		362	4.09	34.760	27.61		
.		372	4.33	34.860	27.64		
.		408	4.43	34.870	27.66		
.		500	4.48	34.900	27.68		
.		600	4.47	34.910	27.69		
.		700	4.46	34.910	27.69		
.		800	4.41	34.920	27.70		
.		821	4.41	34.920	27.70		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 31.0N	047 35.0W	04	08	00.8	1971	10838	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1792	16	0	2		X1	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	OYN MT	
14	08	305	02.	02.	971.004		
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
00.8		0	4.58	33.390	26.47		
.		10	4.48	33.390	26.48		
00.4		20	4.45	33.280	26.40		
.		30	2.68	33.220	26.52		
.		35	2.58	33.280	26.57		
.		50	3.36	33.590	26.72		
.		75	3.92	33.770	26.84		
.		100	4.35	33.970	26.95		
.		110	3.83	34.090	27.10		
.		125	3.90	34.200	27.18		
.		150	4.56	34.450	27.31		
.		164	4.68	34.550	27.36		
.		200	4.68	34.660	27.46		
.		250	4.71	34.770	27.55		
.		300	4.69	34.810	27.58		
.		400	4.73	34.900	27.65		
.		500	4.54	34.910	27.68		
.		600	4.41	34.920	27.70		
.		700	4.27	34.930	27.72		
.		800	4.09	34.900	27.72		
.		900	3.95	34.900	27.73		
.		1000	3.83	34.900	27.75		
.		1050	3.81	34.900	27.75		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 36.0N	047 47.0W	04	07	23.8	1971	10837	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0497	26	0	2		X1	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	OYN MT	
16	08	308	02.	02.		971.023	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
23.2		0	0.03	33.130	26.62		
.		10	0.13	33.150	26.64		
00.2		20	0.27	33.130	26.63		
.		30	0.69	33.150	26.67		
.		38	0.86	33.190	26.70		
.		50	0.87	33.220	26.73		
.		56	0.86	33.290	26.78		
.		75	0.65	33.620	26.98		
.		76	0.77	33.620	26.97		
.		80	0.76	33.640	26.99		
.		86	0.22	33.660	27.06		
.		100	0.54	33.800	27.20		
.		125	1.62	34.210	27.39		
.		150	2.55	34.350	27.43		
.		200	3.50	34.580	27.52		
.		250	4.02	34.720	27.58		
.		260	4.03	34.730	27.59		
.		300	4.29	34.800	27.62		
.		400	4.47	34.870	27.65		
.		462	4.47	34.900	27.68		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 19.0N	047 20.0W	04	08	03.2	1971	10839	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
2734	16	0	2		X1	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	OYN MT	
14	10	312	00.	.		970.966	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
03.3		0	3.97	33.380	26.52		
.		10	3.43	33.320	26.53		
00.4		13	3.19	33.280	26.50		
.		17	3.39	33.280	26.50		
.		20	3.29	33.260	26.49		
.		28	2.75	33.240	26.53		
.		38	2.83	33.310	26.57		
.		50	3.64	33.400	26.57		
.		56	3.87	33.480	26.61		
.		70	3.53	33.780	26.89		
.		75	3.55	33.800	26.90		
.		100	3.59	33.900	26.97		
.		125	3.93	34.180	27.16		
.		150	4.27	34.390	27.29		
.		170	4.53	34.520	27.37		
.		200	4.46	34.590	27.43		
.		250	4.26	34.720	27.56		
.		300	4.27	34.780	27.60		
.		400	4.33	34.880	27.68		
.		500	4.27	34.880	27.68		
.		600	4.11	34.880	27.70		
.		700	4.02	34.900	27.73		
.		800	3.94	34.910	27.74		
.		900	3.84	34.920	27.76		
.		1000	3.77	34.910	27.76		
.		1020	3.75	34.910	27.76		

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 08.0N	047 00.0W	04	08	06.1	1971	10840	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3190	14	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	15	301	04.	04.		971.003	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
06.1		0	3.68	33.210	26.42
.		10	3.68	33.250	26.45
00.2		20	4.35	33.380	26.49
.		22	4.49	33.380	26.47
.		30	4.46	33.380	26.47
.		50	3.87	33.310	26.48
.		75	1.59	33.740	27.02
.		100	2.07	34.070	27.24
.		116	3.90	34.370	27.32
.		121	3.72	34.360	27.33
.		125	3.80	34.370	27.33
.		150	4.71	34.550	27.37
.		200	5.91	34.800	27.43
.		250	5.27	34.780	27.49
.		268	4.92	34.810	27.56
.		300	4.92	34.850	27.59
.		306	4.92	34.860	27.59
.		360	5.12	34.920	27.62
.		380	4.99	34.940	27.65
.		400	4.97	34.910	27.63
.		426	4.89	34.940	27.66
.		450	5.07	34.960	27.66
.		500	5.07	34.970	27.66
.		600	4.77	34.960	27.69
.		700	4.46	34.960	27.71
.		800	4.28	34.950	27.74
.		900	4.12	34.940	27.75
.		1000	4.08	34.960	27.77
.		1030	4.05	34.950	27.76

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 58.0N	046 42.0W	04	08	08.6	1971	10841	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3533	14	1	2		X2	0	6
WIND		BARO-METER (MB)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	14	295	06.	06.		971.062	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
08.6		0	4.92	32.930	26.07
.		10	4.92	32.930	26.07
00.3		20	4.92	32.940	26.08
.		25	4.92	32.940	26.08
.		30	4.39	32.900	26.10
.		36	4.12	33.090	26.28
.		44	4.73	33.110	26.23
.		50	3.40	33.190	26.43
.		60	3.17	33.340	26.57
.		75	3.65	33.670	26.79
.		80	4.28	33.650	26.71
.		89	3.51	33.810	26.91
.		100	4.51	34.100	27.04
.		125	6.92	34.550	27.10
.		130	6.82	34.510	27.08
.		140	7.05	34.640	27.15
.		150	6.22	34.510	27.16
.		170	4.19	34.280	27.22
.		181	4.57	34.420	27.29
.		194	3.28	34.210	27.25
.		200	3.49	34.340	27.33
.		210	4.20	34.450	27.35
.		220	3.71	34.390	27.35
.		242	4.38	34.570	27.43
.		250	4.28	34.550	27.42
.		262	4.47	34.640	27.47
.		280	4.41	34.640	27.48
.		300	4.91	34.780	27.53
.		310	4.93	34.780	27.53
.		320	4.69	34.750	27.53
.		340	5.08	34.860	27.58
.		352	4.90	34.850	27.59
.		390	5.00	34.900	27.62
.		400	4.95	34.900	27.62
.		422	4.95	34.930	27.65
.		450	5.08	34.950	27.65
.		500	4.98	34.960	27.67
.		600	4.58	34.950	27.71
.		700	4.31	34.920	27.71
.		800	4.15	34.920	27.73
.		900	4.07	34.920	27.74
.		1000	3.96	34.920	27.75
.		1030	3.93	34.920	27.75

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 49.0N	046 19.0W	04	08	11.3	1971	10842	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
3603	12	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULR	WET RULR	VIS CODE	DYN HT	
12	14	291	07.	06.			971.084

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
11.3		0	5.47	33.140	26.17
.		10	5.46	33.140	26.17
00.3		18	5.47	33.190	26.21
.		20	5.59	33.260	26.25
.		30	5.63	33.420	26.37
.		50	7.80	34.140	26.65
.		70	10.56	34.960	26.84
.		75	10.51	34.960	26.85
.		100	9.03	34.760	26.95
.		118	7.75	34.580	27.00
.		125	7.80	34.580	26.99
.		150	8.59	34.820	27.06
.		160	9.72	35.120	27.11
.		190	9.71	35.100	27.10
.		200	9.15	34.860	27.00
.		210	8.45	35.050	27.26
.		225	8.80	35.050	27.21
.		250	7.20	34.980	27.32
.		275	7.61	34.960	27.32
.		300	6.80	34.860	27.36
.		320	6.87	34.860	27.35
.		342	5.15	34.780	27.50
.		365	6.47	34.960	27.48
.		400	5.40	34.840	27.52
.		411	5.31	34.920	27.60
.		438	5.79	35.000	27.60
.		451	5.79	35.000	27.60
.		500	5.44	34.980	27.63
.		600	4.68	34.940	27.69
.		620	4.53	34.930	27.69
.		660	4.52	34.950	27.71
.		700	4.40	34.940	27.72
.		800	4.05	34.920	27.74
.		900	3.95	34.910	27.74
.		1000	3.90	34.920	27.75
.		1025	3.88	34.920	27.76

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 04.0N	045 34.0W	04	08	15.7	1971	10843	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
3647	12			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	14	281	08.	07.			971.127

15.8	0	6.53	33.430	26.27
.	10	9.36	34.370	26.59
00.5	20	11.51	0.000	0.00
.	30	12.34	35.250	26.74
.	40	12.51	34.130	25.84
.	50	11.28	34.890	26.66
.	56	11.23	35.080	26.81
.	65	12.67	35.480	26.85
.	75	11.91	35.260	26.83
.	80	12.01	35.180	26.75
.	100	11.76	35.210	26.82
.	125	12.69	35.510	26.87
.	130	12.73	35.530	26.88
.	150	11.34	35.220	26.90
.	185	8.00	34.600	26.98
.	200	9.46	34.880	26.97
.	215	8.89	34.910	27.09
.	238	9.77	35.160	27.14
.	250	9.27	35.030	27.12
.	300	6.35	34.790	27.36
.	323	7.23	35.020	27.42
.	329	7.52	35.010	27.37
.	384	6.71	34.980	27.46
.	400	6.69	35.010	27.49
.	500	5.81	34.980	27.58
.	555	5.33	34.990	27.65
.	600	5.46	35.020	27.66
.	656	4.85	34.960	27.68
.	682	4.85	34.960	27.68
.	700	4.81	34.960	27.69
.	713	4.66	34.950	27.70
.	733	4.66	34.950	27.70
.	752	4.41	34.950	27.72
.	800	4.39	34.950	27.73
.	900	4.21	34.960	27.75
.	1000	4.11	34.940	27.75
.	1030	4.10	34.960	27.77
.	1050	4.14	34.970	27.77

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 35.0N	044 34.0W	04	08	21.2	1971	10844	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
4424	14	1	2		x2	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	12	261	08.	07.		971.105	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
20.7		0	5.41	33.260	26.27
.		7	5.41	33.260	26.27
00.6		10	5.36	33.260	26.28
.		20	5.26	33.230	26.27
.		30	5.15	33.230	26.28
.		40	4.49	33.190	26.32
.		50	3.26	33.310	26.54
.		75	7.02	34.220	26.82
.		90	8.50	34.590	26.90
.		100	8.22	34.580	26.93
.		120	7.62	34.580	27.02
.		125	7.74	34.620	27.03
.		140	8.33	34.790	27.08
.		146	7.74	34.780	27.16
.		150	7.45	34.780	27.20
.		160	8.32	34.870	27.14
.		180	7.67	34.820	27.20
.		188	7.49	34.730	27.16
.		190	7.49	34.780	27.20
.		200	7.62	34.830	27.22
.		250	6.14	34.660	27.29
.		260	6.06	34.690	27.32
.		275	6.73	34.680	27.22
.		290	5.77	34.700	27.37
.		300	5.91	34.850	27.47
.		310	5.92	34.810	27.43
.		320	6.02	34.860	27.46
.		340	6.30	34.850	27.42
.		374	4.91	34.810	27.56
.		390	5.86	34.900	27.51
.		400	5.61	34.860	27.51
.		430	5.47	34.910	27.57
.		435	5.53	34.880	27.54
.		440	5.47	34.890	27.55
.		500	5.36	34.950	27.61
.		600	4.54	34.890	27.66
.		700	4.51	34.930	27.70
.		710	4.65	34.970	27.71
.		721	4.51	34.950	27.71
.		800	4.32	34.940	27.73
.		900	4.21	34.940	27.74
.		920	4.23	34.950	27.74
.		1000	4.11	34.950	27.76
.		1051	4.07	34.950	27.76

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 38.0N	043 58.0W	04	09	00.9	1971	10845	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
4471	14	2	2		x1	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULE	WET RULE	VIS CODE	DYN HT	
16	15	244	10.	09.			971.124

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
00.9		0	6.84	33.570	26.34
.		10	6.82	33.650	26.40
00.4		20	6.82	33.770	26.50
.		30	6.82	33.970	26.65
.		35	6.82	34.100	26.76
.		50	8.34	34.480	26.83
.		75	10.89	35.140	26.92
.		100	10.89	35.250	27.01
.		102	11.63	35.200	26.83
.		110	11.63	35.220	26.85
.		125	9.89	34.890	26.90
.		150	10.03	35.050	27.01
.		177	9.94	34.850	26.86
.		200	8.49	34.800	27.06
.		250	6.65	34.760	27.30
.		260	6.49	34.750	27.31
.		280	6.80	34.780	27.29
.		300	6.42	34.670	27.26
.		327	5.03	34.660	27.42
.		340	5.14	34.660	27.41
.		345	5.27	34.650	27.39
.		355	5.08	34.660	27.42
.		375	5.08	34.770	27.51
.		400	5.37	34.830	27.52
.		405	5.44	34.800	27.49
.		410	5.36	34.830	27.52
.		448	5.60	34.900	27.55
.		489	5.20	34.950	27.63
.		500	5.55	34.970	27.61
.		510	5.71	35.000	27.61
.		530	5.71	35.000	27.61
.		600	4.79	34.920	27.66
.		612	4.77	34.920	27.66
.		649	4.91	34.960	27.68
.		700	4.71	34.950	27.69
.		800	4.52	34.950	27.71
.		900	4.40	34.960	27.73
.		1000	4.25	34.960	27.75
.		1012	4.25	34.960	27.75

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 04.0N	043 30.0W	04	09	06.9	1971	10846	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
4506	19	2	2		X2	0	6
WIND		BARO- METER (MR5)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
19	30	220	12.	11.		971.138	

MESSFNGR TIME	CST NO.	DEPTH	TEMP	SAL	SIG-T
06.9		0	7.36	33.560	26.26
.		10	7.09	33.510	26.26
00.3		20	7.09	33.560	26.29
.		30	7.09	33.660	26.37
.		50	8.64	34.490	26.80
.		75	10.39	35.010	26.91
.		100	10.44	35.010	26.90
.		125	9.94	34.940	26.93
.		150	9.97	35.060	27.02
.		200	9.37	35.060	27.12
.		250	8.79	34.940	27.12
.		300	7.64	34.800	27.19
.		400	6.32	34.850	27.41
.		500	5.76	34.880	27.51
.		600	4.92	34.880	27.61
.		700	4.71	34.940	27.68
.		800	4.47	34.920	27.69
.		900	4.27	34.920	27.72
.		1000	4.15	34.930	27.74
.		1025	4.11	34.940	27.75

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 25.0N	043 27.0W	04	09	09.5	1971	10847	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
4053	19	2	4		X1	0	6
WIND		BARO-METER (MR5)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
18	16	207	12.	11.		971.112	

MESSFNGR TIME	CST NO.	DEPTH	TEMP	SAL	SIG-T
09.5		0	5.96	33.400	26.32
.		10	5.95	33.400	26.32
00.4		20	5.95	33.400	26.32
.		30	5.90	33.410	26.33
.		50	5.94	33.430	26.34
.		57	5.96	33.500	26.40
.		62	5.87	33.650	26.52
.		70	5.87	33.640	26.52
.		75	5.07	33.730	26.68
.		87	5.07	33.800	26.74
.		100	6.79	34.300	26.92
.		115	6.37	34.300	26.97
.		125	6.89	34.350	26.94
.		130	6.78	34.390	26.99
.		150	6.14	34.480	27.15
.		183	5.51	34.500	27.24
.		189	5.59	34.500	27.23
.		200	5.24	34.470	27.25
.		210	5.39	34.500	27.25
.		219	5.03	34.500	27.30
.		236	5.24	34.620	27.37
.		240	4.70	34.610	27.42
.		248	4.99	34.650	27.42
.		250	4.89	34.650	27.43
.		300	4.47	34.610	27.45
.		400	4.74	34.760	27.54
.		500	4.76	34.880	27.63
.		520	4.76	34.880	27.63
.		530	4.61	34.880	27.65
.		600	4.63	34.880	27.64
.		700	4.36	34.880	27.67
.		800	4.15	34.880	27.70
.		900	3.99	34.880	27.71
.		1000	3.99	34.900	27.73
.		1021	3.97	34.910	27.74

TABLE 1. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 47.0N	043 26.0W	04	09	12.2	1971	10848	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3275	19	3	2		X2	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
19	20	198	10.	10.		971.001	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
12.7		0	4.83	33.470	26.50		
.		10	4.85	33.470	26.50		
00.7		20	4.81	33.340	26.40		
.		30	3.64	0.000	0.00		
.		75	6.50	34.480	27.10		
.		90	7.73	34.580	27.08		
.		100	7.21	34.630	27.12		
.		125	6.14	34.380	27.07		
.		137	6.81	34.740	27.26		
.		143	6.44	34.770	27.31		
.		150	6.57	34.630	27.21		
.		170	4.56	34.510	27.36		
.		178	5.31	34.840	27.53		
.		187	5.01	34.760	27.51		
.		200	5.69	34.780	27.44		
.		240	4.29	34.660	27.51		
.		250	4.33	34.710	27.54		
.		300	4.56	34.860	27.64		
.		325	4.61	34.860	27.63		
.		332	4.74	34.890	27.64		
.		350	4.49	34.850	27.64		
.		400	4.48	34.870	27.65		
.		500	4.46	34.890	27.67		
.		600	4.32	34.910	27.70		
.		700	4.17	34.910	27.72		
.		800	4.05	34.900	27.72		
.		900	3.91	34.890	27.73		
.		1000	3.77	34.920	27.77		
.		1050	3.78	34.910	27.76		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 02.0N	043 28.0W	04	09	18.3	1971	10850	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
1609	18	3	2		X6	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
18	16	257	07.	07.		970.907	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
18.1		0	4.06	34.030	27.03		
.		10	4.03	34.030	27.03		
00.4		20	3.86	34.050	27.07		
.		30	3.67	34.080	27.09		
.		50	3.39	34.180	27.22		
.		75	3.86	34.440	27.38		
.		95	3.89	34.460	27.39		
.		100	3.94	34.490	27.41		
.		125	4.10	34.580	27.46		
.		150	4.27	34.740	27.57		
.		200	4.37	34.810	27.62		
.		250	4.42	34.870	27.66		
.		300	4.43	34.870	27.66		
.		400	4.36	34.900	27.69		
.		500	4.15	34.910	27.72		
.		600	4.08	34.900	27.72		
.		700	3.96	34.900	27.73		
.		800	3.81	34.880	27.73		
.		900	3.73	34.900	27.76		
.		1000	3.70	34.910	27.77		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 54.0N	043 28.0W	04	09	16.0	1971	10849	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1181	20	0	3		X6	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
18	20	186	08.	07.		970.916	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
16.0		0	3.35	34.040	27.11		
.		10	3.47	34.040	27.10		
00.4		20	3.48	34.040	27.10		
.		30	3.48	34.050	27.10		
.		45	3.51	34.070	27.12		
.		50	3.30	34.070	27.14		
.		60	3.10	34.130	27.20		
.		75	3.22	34.200	27.25		
.		100	3.61	34.470	27.43		
.		125	4.08	34.660	27.53		
.		150	4.13	34.690	27.55		
.		200	4.31	34.810	27.62		
.		250	4.42	34.860	27.65		
.		300	4.43	34.900	27.68		
.		400	4.41	34.910	27.69		
.		500	4.30	34.930	27.72		
.		600	4.16	34.900	27.71		
.		700	4.02	34.900	27.73		
.		800	3.90	34.910	27.75		
.		900	3.78	34.910	27.76		
.		1000	3.71	34.930	27.78		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 18.0N	043 22.0W	04	09	20.3	1971	10851	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3018	22	3	2		X6	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
24	10	254	07.	07.		970.946	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
20.4		0	3.78	33.820	26.89		
.		10	3.77	33.830	26.90		
00.3		20	3.56	34.010	27.07		
.		30	3.45	34.050	27.11		
.		50	3.25	34.070	27.14		
.		75	3.01	34.100	27.19		
.		100	3.36	34.290	27.31		
.		113	3.18	34.340	27.36		
.		125	3.32	34.400	27.40		
.		150	3.66	34.530	27.47		
.		164	4.14	34.670	27.53		
.		178	4.20	34.690	27.54		
.		200	4.17	34.720	27.57		
.		250	4.31	34.780	27.60		
.		300	4.42	34.840	27.64		
.		400	4.46	34.870	27.65		
.		500	4.41	34.900	27.68		
.		600	4.29	34.900	27.70		
.		700	4.15	34.890	27.70		
.		800	4.02	34.880	27.71		
.		900	3.87	34.910	27.75		
.		1000	3.76	34.910	27.76		

TABLE 1. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 38.0N	043 24.0W	04	09	22.8	1971	10852	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3219	18	3	2		X6	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
00	00	142	08.	07.		970.970	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
22.8		0	4.47	33.910	26.89
.		9	4.45	33.950	26.93
00.5		10	4.37	33.940	26.93
.		20	4.41	33.960	26.94
.		30	4.40	33.970	26.95
.		50	4.27	33.970	26.96
.		75	3.11	34.020	27.12
.		100	2.45	34.020	27.17
.		125	3.29	34.300	27.32
.		150	4.25	34.440	27.34
.		160	3.81	34.450	27.39
.		170	4.40	34.610	27.46
.		182	4.33	34.610	27.46
.		190	4.39	34.600	27.45
.		200	4.35	34.680	27.52
.		215	4.11	34.660	27.53
.		235	4.21	34.750	27.59
.		250	4.22	34.760	27.59
.		270	4.22	34.780	27.61
.		300	4.33	34.820	27.63
.		317	4.40	34.850	27.65
.		400	4.45	34.880	27.66
.		500	4.42	34.890	27.68
.		600	4.27	34.870	27.68
.		700	4.13	34.880	27.70
.		800	4.01	34.890	27.72
.		900	3.92	34.890	27.73
.		939	3.87	34.900	27.74
.		961	3.81	34.900	27.75
.		1000	3.82	34.890	27.74
.		1010	3.81	34.900	27.75

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 02.0N	043 26.0W	04	10	02.1	1971	10853	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
3109	33	0	2		X6	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
33	18	149	04.	04.		970.953	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
02.1		0	4.16	33.750	26.80
.		10	4.34	33.920	26.91
00.4		13	4.54	33.920	26.89
.		20	3.62	33.820	26.91
.		30	3.34	33.970	27.05
.		40	3.59	33.990	27.05
.		50	3.03	33.940	27.06
.		75	2.76	33.990	27.12
.		100	2.55	34.100	27.23
.		112	2.87	34.110	27.21
.		125	2.57	34.140	27.26
.		150	2.78	34.350	27.41
.		193	4.47	34.710	27.53
.		200	4.38	34.700	27.53
.		238	4.76	34.830	27.59
.		250	4.57	34.780	27.57
.		300	4.36	34.820	27.63
.		400	4.41	34.880	27.67
.		460	4.42	34.880	27.67
.		463	4.36	34.880	27.67
.		500	4.36	34.890	27.68
.		600	4.21	34.890	27.70
.		700	4.09	34.900	27.72
.		800	4.02	34.900	27.73
.		900	3.92	34.910	27.74
.		1000	3.82	34.910	27.75
.		1030	3.80	34.910	27.76

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODU Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 21.0N	043 30.0W	04	10	05.0	1971	10854	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
3374	33	1	2		X6	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
33	10	139	03.	03.		970.978	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
15.0		0	5.74	33.890	26.73		
.		10	5.18	33.780	26.71		
00.4		19	4.53	34.050	27.00		
.		20	5.99	34.350	27.06		
.		30	8.05	34.750	27.09		
.		47	8.22	34.710	27.03		
.		50	8.34	34.890	27.16		
.		60	8.55	34.760	27.02		
.		65	8.20	34.870	27.16		
.		70	8.46	34.870	27.12		
.		75	7.84	34.840	27.19		
.		85	6.29	34.520	27.16		
.		100	7.27	34.700	27.17		
.		125	6.35	34.570	27.19		
.		150	4.80	34.580	27.39		
.		165	4.48	34.490	27.35		
.		195	6.38	34.950	27.48		
.		200	6.36	34.930	27.47		
.		250	5.41	34.850	27.53		
.		260	5.39	34.860	27.54		
.		275	5.59	34.920	27.56		
.		300	5.13	34.850	27.56		
.		327	4.23	34.770	27.60		
.		400	4.42	34.860	27.65		
.		500	4.41	34.880	27.67		
.		600	4.39	34.890	27.68		
.		700	4.21	34.910	27.71		
.		800	4.07	34.910	27.73		
.		900	4.00	34.910	27.74		
.		1000	3.91	34.900	27.74		
.		1011	3.89	34.910	27.75		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 43.0N	043 28.0W	04	10	08.0	1971	10855	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
3594	23	2	2		X2	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
29	12	102	03.	03.		971.027	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
08.0		0	6.50	33.950	26.68		
.		10	6.51	33.950	26.68		
00.4		20	6.56	34.000	26.71		
.		30	6.58	34.000	26.71		
.		40	6.84	33.960	26.64		
.		47	5.76	34.180	26.96		
.		50	6.09	34.180	26.92		
.		75	7.02	34.320	26.90		
.		100	5.71	34.350	27.10		
.		105	5.96	34.320	27.04		
.		125	5.09	34.070	26.95		
.		132	4.46	34.310	27.21		
.		150	5.39	34.410	27.18		
.		160	5.96	34.500	27.18		
.		200	5.57	34.400	27.15		
.		215	5.94	34.480	27.17		
.		230	5.27	34.550	27.31		
.		240	5.06	34.630	27.40		
.		250	5.79	34.810	27.45		
.		267	6.37	34.910	27.45		
.		300	5.24	34.810	27.52		
.		368	4.69	34.930	27.68		
.		390	4.94	34.870	27.60		
.		400	4.81	34.870	27.62		
.		440	4.58	34.920	27.68		
.		450	4.77	34.870	27.62		
.		500	4.72	34.930	27.67		
.		600	4.51	34.940	27.70		
.		700	4.40	34.950	27.72		
.		800	4.15	34.920	27.73		
.		900	4.11	34.940	27.75		
.		1000	4.04	34.960	27.77		
.		1055	3.98	34.960	27.77		

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 16.0N	044 02.0W	04	10	12.5	1970	10856	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
2387	29	1	2		X1	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	OYM HT	
30	20	190	04.	04.	970.926		
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
12.		0	3.05	33.940	27.06		
.		10	2.87	33.980	27.11		
00.3		20	2.77	33.980	27.11		
.		30	2.82	34.010	27.13		
.		40	2.84	33.990	27.12		
.		50	2.82	34.000	27.13		
.		53	2.79	34.030	27.15		
.		61	2.92	34.090	27.19		
.		75	2.65	34.030	27.16		
.		95	2.59	34.160	27.27		
.		100	2.64	34.210	27.31		
.		110	3.26	34.410	27.41		
.		125	3.45	34.430	27.41		
.		142	3.61	34.490	27.44		
.		150	3.61	34.470	27.43		
.		160	3.41	34.490	27.46		
.		191	3.90	34.720	27.60		
.		200	3.93	34.720	27.59		
.		210	4.08	34.770	27.62		
.		227	4.14	34.800	27.63		
.		250	4.28	34.820	27.63		
.		300	4.42	34.880	27.67		
.		400	4.45	34.890	27.67		
.		500	4.43	34.900	27.68		
.		53A	4.42	34.900	27.68		
.		600	4.32	34.920	27.71		
.		700	4.13	34.900	27.71		
.		800	3.98	34.920	27.75		
.		900	3.87	34.910	27.75		
.		1000	3.76	34.920	27.77		
.		1029	3.75	34.930	27.70		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 38.0N	049 20.0W	04	11	22.0	1971	10858	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0060	27	1	2		X4	0	6
WIND		BARO-METER (MB5)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
27	10	325	04.	04.		971.139	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
21.8		0	1.67	32.326	25.87		
.		2	1.67	32.320	25.87		
00.1		10	1.67	32.320	25.87		
.		15	1.67	32.320	25.87		
.		20	1.65	32.320	25.88		
.		30	1.10	32.430	25.99		
.		40	0.17	32.650	26.24		
.		50	0.19	32.660	26.25		
.		52	0.19	32.660	26.25		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 45.0N	044 48.0W	04	10	18.2	1971	10857	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0240	23	3	3		X1	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
20	14	230	03.	02.		970.950	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
18.2		0	2.03	33.690	26.94		
.		10	2.03	33.690	26.94		
00.2		20	2.03	33.690	26.94		
.		30	2.03	33.700	26.95		
.		50	2.03	33.720	26.97		
.		60	2.02	33.740	26.98		
.		75	1.95	33.630	27.06		
.		100	2.11	33.900	27.17		
.		125	2.86	34.220	27.30		
.		150	3.69	34.510	27.45		
.		165	4.19	34.730	27.57		
.		185	4.28	34.800	27.62		
.		200	4.29	34.810	27.63		
.		206	4.29	34.810	27.63		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 34.0N	049 07.0W	04	11	22.6	1971	10859	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0062	24	1	2		X1	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
22	14	32A	03.	03.		971.128	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
22.7		0	1.37	32.450	26.00		
.		4	1.37	32.450	26.00		
00.1		10	1.37	32.460	26.01		
.		20	0.96	32.640	26.18		
.		30	0.27	32.780	26.33		
.		40	0.07	32.820	26.37		
.		50	0.11	32.820	26.38		
.		54	0.12	32.820	26.38		

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 32.0N	048 56.0W	04	11	23.5	1971	10A60	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0267	24	1	2		X1	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
22	10	32R	03.	03.			971.124
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
23.4		0	0.43	32.780	26.32		
.		2	0.43	32.780	26.32		
00.7		10	0.43	32.760	26.30		
.		19	0.43	32.740	26.28		
.		20	0.14	32.740	26.30		
.		30	0.01	32.800	26.35		
.		50	0.18	32.760	26.33		
.		65	1.24	32.950	26.52		
.		70	1.24	32.950	26.52		
.		75	1.13	33.010	26.57		
.		85	0.90	33.080	26.62		
.		88	0.70	33.150	26.67		
.		100	0.55	33.170	26.68		
.		110	0.08	33.200	26.68		
.		115	0.17	33.320	26.78		
.		118	0.08	33.280	26.74		
.		125	0.01	33.460	26.89		
.		150	0.52	33.570	26.95		
.		170	0.57	33.580	26.95		
.		175	0.66	33.650	27.00		
.		200	0.77	33.680	27.02		
.		245	0.72	33.850	27.16		
.		250	1.22	33.920	27.19		
.		254	1.22	33.920	27.19		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 29.0N	048 50.0W	04	12	01.5	1971	10A61	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
1811	24	1	2		X0	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
23	10	32R	04.	03.			971.030
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
00.9		0	0.29	32.730	26.31		
.		10	0.33	32.730	26.31		
00.4		20	0.65	32.760	26.35		
.		30	0.70	32.780	26.37		
.		50	1.34	32.890	26.48		
.		75	0.30	33.550	26.94		
.		100	0.45	33.710	27.06		
.		125	1.07	33.810	27.11		
.		150	1.27	33.970	27.22		
.		200	3.45	34.560	27.51		
.		250	3.90	34.710	27.59		
.		300	4.07	34.740	27.59		
.		400	4.38	34.840	27.64		
.		500	4.46	34.890	27.67		
.		600	4.53	34.900	27.67		
.		700	4.52	34.920	27.69		
.		800	4.37	34.930	27.71		
.		900	4.29	34.920	27.71		
.		1000	4.23	34.930	27.73		
.		1107	4.12	34.930	27.74		

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 26.0N	048 28.0W	04	12	02.9	1971	10862	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
2935	24	0	2		X0	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
23	10	325	04.	03.		970.985	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
02.9		0	0.23	32.880	26.41
.		10	0.17	32.960	26.47
00.3		20	0.67	32.970	26.46
.		30	2.15	33.280	26.61
.		50	2.77	33.540	26.76
.		75	2.36	33.830	27.03
.		97	5.30	34.290	27.10
.		100	5.27	34.300	27.11
.		117	3.97	34.320	27.27
.		125	4.25	34.360	27.27
.		132	3.82	34.350	27.31
.		150	4.77	34.640	27.44
.		155	4.90	34.610	27.40
.		173	4.00	34.510	27.42
.		182	4.38	34.600	27.45
.		200	4.13	34.620	27.49
.		212	3.71	34.540	27.47
.		250	4.52	34.810	27.60
.		263	4.52	34.780	27.58
.		283	4.23	34.760	27.59
.		300	4.25	34.790	27.61
.		400	4.42	34.870	27.66
.		500	4.37	34.900	27.69
.		600	4.33	34.920	27.71
.		700	4.24	34.920	27.72
.		800	4.11	34.920	27.73
.		900	4.02	34.920	27.74
.		1000	3.98	34.920	27.75
.		1008	3.97	34.920	27.75

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 23.0N	048 12.0W	04	12	04.8	1971	10863	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
3283	24	1	2		X0	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
23	11	328	04.	03.			971.021

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
04.8		0	4.03	33.040	26.05
.		10	4.03	33.040	26.25
00.3		20	4.03	33.040	26.25
.		30	4.03	33.050	26.26
.		50	3.30	33.480	26.67
.		87	6.50	34.430	27.06
.		95	6.73	34.520	27.10
.		100	6.60	34.560	27.15
.		105	6.95	34.550	27.09
.		110	6.80	34.540	27.10
.		112	7.01	34.620	27.14
.		121	6.58	34.700	27.26
.		125	6.80	34.700	27.23
.		135	6.80	34.580	27.14
.		150	6.20	34.600	27.23
.		162	5.65	34.590	27.29
.		170	5.72	34.620	27.31
.		180	5.40	34.620	27.35
.		200	5.40	34.690	27.40
.		250	5.30	34.740	27.46
.		300	4.47	34.750	27.56
.		325	4.42	34.780	27.59
.		355	4.65	34.860	27.63
.		375	4.65	34.860	27.63
.		400	4.52	34.860	27.64
.		410	4.60	34.880	27.65
.		438	4.60	34.880	27.65
.		500	4.47	34.880	27.66
.		600	4.73	34.920	27.71
.		700	4.15	34.920	27.73
.		800	4.05	34.920	27.74
.		900	3.99	34.920	27.75
.		1000	3.92	34.920	27.75
.		1009	3.92	34.920	27.75

TABLE 1. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 19.0N	047 46.0W	04	12	07.1	1971	10864	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3526	24	1	2		X1	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
26	11	328	04.	04.			971.096

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
07.1		0	5.08	32.960	26.07
.		10	5.08	32.960	26.07
00.1		20	5.08	32.960	26.07
.		30	5.08	32.960	26.07
.		35	5.08	32.960	26.07
.		50	7.19	33.930	26.57
.		72	10.48	34.690	26.65
.		75	10.05	34.840	26.84
.		83	9.92	34.910	26.91
.		90	9.99	34.910	26.90
.		95	9.78	34.820	26.87
.		100	9.97	34.960	26.95
.		105	9.97	35.000	26.98
.		125	9.52	34.860	26.94
.		148	7.87	34.830	27.18
.		150	7.98	34.880	27.20
.		157	8.23	34.830	27.13
.		182	7.27	34.730	27.19
.		192	7.25	34.850	27.29
.		200	7.47	34.780	27.20
.		250	5.73	34.620	27.31
.		300	5.47	34.750	27.44
.		321	5.74	34.840	27.48
.		345	5.54	34.850	27.51
.		361	5.64	34.820	27.48
.		400	5.37	34.910	27.58
.		500	4.95	34.920	27.64
.		550	5.05	34.960	27.66
.		600	4.95	34.960	27.67
.		700	4.72	34.970	27.71
.		800	4.42	34.960	27.73
.		900	4.32	34.960	27.74
.		1000	4.32	34.990	27.77
.		1012	4.32	34.990	27.77

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 17.0N	047 30.0W	04	12	08.9	1971	10865	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3738	26	1	2		X2	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
25	08	322	08.	07.		971.112	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
08.9		0	6.30	33.540	26.38
.		10	7.90	34.060	26.57
00.3		20	8.22	34.080	26.54
.		30	8.97	34.400	26.67
.		35	9.28	34.360	26.59
.		50	11.83	35.280	26.86
.		72	11.73	35.240	26.85
.		75	11.65	35.080	26.74
.		82	10.95	35.050	26.84
.		100	11.13	35.150	26.89
.		125	9.88	34.900	26.91
.		145	6.75	0.000	0.00
.		150	9.10	34.890	27.04
.		170	9.97	35.040	27.01
.		175	9.48	34.980	27.04
.		190	9.82	35.110	27.09
.		200	9.54	35.020	27.06
.		250	6.51	34.780	27.33
.		255	6.77	34.700	27.24
.		265	6.50	34.700	27.27
.		275	6.74	34.800	27.32
.		300	6.02	34.680	27.32
.		310	5.69	34.680	27.36
.		330	5.87	34.760	27.40
.		355	5.47	34.780	27.47
.		372	6.19	34.920	27.49
.		400	5.45	34.830	27.51
.		408	5.21	34.810	27.52
.		460	5.69	34.950	27.57
.		500	5.54	34.960	27.60
.		559	4.96	34.920	27.64
.		600	5.00	34.980	27.68
.		612	5.15	35.000	27.68
.		700	4.53	34.950	27.71
.		800	4.24	34.920	27.72
.		840	4.35	34.950	27.73
.		900	4.15	34.930	27.74
.		1000	4.03	34.940	27.76
.		1018	4.00	34.920	27.74

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-S245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 14.0N	046 58.0W	04	12	11.7	1971	10866	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
3994	26	1	2		X2	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
27	08	328	08.	07.		971.142	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
11.7		0	7.62	33.820	26.42
.		10	7.69	33.910	26.48
00.4		20	7.82	33.920	26.47
.		27	7.89	34.130	26.63
.		30	8.88	34.410	26.70
.		39	9.49	34.410	26.60
.		50	11.35	35.140	26.84
.		75	12.00	35.220	26.78
.		100	13.12	35.560	26.82
.		117	13.11	35.550	26.81
.		125	12.95	35.520	26.82
.		150	12.39	35.460	26.89
.		200	9.68	34.970	27.00
.		209	9.58	35.090	27.11
.		238	10.07	35.190	27.11
.		250	9.70	35.130	27.12
.		273	8.73	35.070	27.24
.		285	8.90	35.070	27.21
.		300	8.15	34.920	27.21
.		310	8.06	34.990	27.28
.		320	8.13	35.000	27.27
.		377	5.59	34.820	27.48
.		395	6.65	34.940	27.44
.		400	5.68	34.760	27.42
.		416	5.42	34.880	27.55
.		423	5.69	34.840	27.49
.		430	5.30	34.840	27.53
.		435	5.59	34.830	27.49
.		443	5.09	34.870	27.58
.		464	5.67	34.890	27.53
.		500	5.46	34.950	27.60
.		600	5.03	34.940	27.65
.		625	4.95	34.950	27.66
.		645	5.08	34.980	27.67
.		700	4.77	34.950	27.68
.		800	4.63	34.950	27.70
.		830	4.32	34.930	27.72
.		868	4.37	34.940	27.72
.		900	4.20	34.930	27.73
.		1000	4.29	34.960	27.74
.		1005	4.29	34.960	27.74

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 03.0N	046 14.0W	04	12	16.1	1971	10867	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
3859	26			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
26	08	322	08.	08.			971.117

16.1	0	5.62	32.780	25.87
.	10	5.61	32.780	25.87
00.2	20	5.32	32.740	25.87
.	30	4.93	32.880	26.03
.	44	3.96	33.000	26.22
.	50	4.43	33.210	26.34
.	60	3.74	33.260	26.45
.	67	4.10	33.310	26.46
.	75	3.73	33.620	26.74
.	84	4.32	33.650	26.70
.	94	3.53	33.780	26.89
.	100	4.13	33.860	26.89
.	110	4.26	33.970	26.96
.	125	4.41	34.090	27.04
.	132	4.23	34.180	27.13
.	143	5.37	34.270	27.08
.	150	5.35	34.280	27.09
.	160	4.82	34.290	27.16
.	200	6.27	34.650	27.26
.	240	5.14	34.530	27.31
.	250	6.21	34.790	27.38
.	255	6.25	34.720	27.32
.	285	4.65	34.510	27.35
.	300	5.22	34.710	27.44
.	317	6.00	34.840	27.45
.	343	4.95	34.730	27.49
.	355	5.25	34.780	27.49
.	380	5.02	34.780	27.52
.	393	5.06	34.820	27.55
.	400	4.96	34.790	27.53
.	420	4.82	34.790	27.55
.	445	5.15	34.900	27.60
.	490	5.16	34.920	27.61
.	500	5.35	34.980	27.64
.	520	5.48	34.990	27.63
.	600	5.10	34.960	27.65
.	700	4.60	34.940	27.69
.	800	4.19	34.950	27.72
.	900	4.18	34.940	27.74
.	1000	4.10	34.940	27.75
.	1030	4.10	34.940	27.75

TABLE 1. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
42 19.0N	047 11.0W	04	13	02.4	1971	1086A	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3996	00			0	X0	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
23	04	318	10.	08.			971.054

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
42 35.0N	047 47.0W	04	13	05.6	1971	10869	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3566	12	0	2		X0	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
13	06	295	12.	10.		971.054	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
05.5		0	6.12	32.810	25.83
05.5		10	5.74	32.800	25.87
00.4		20	5.64	32.840	25.91
.		30	4.80	32.890	26.05
.		50	3.90	33.160	26.36
.		55	3.30	33.280	26.51
.		65	4.05	33.570	26.67
.		75	3.52	33.720	26.84
.		80	4.69	34.080	27.00
.		89	4.42	34.060	27.02
.		91	4.58	34.020	26.97
.		100	4.18	34.040	27.03
.		102	4.15	34.070	27.05
.		119	5.06	34.260	27.10
.		125	4.88	34.290	27.15
.		150	5.28	34.460	27.24
.		170	4.77	34.560	27.37
.		180	5.63	34.630	27.33
.		200	5.37	34.540	27.29
.		210	4.86	34.550	27.36
.		240	5.08	34.690	27.44
.		250	5.05	34.690	27.45
.		260	5.00	34.700	27.46
.		275	5.38	34.810	27.50
.		300	4.77	34.750	27.53
.		305	4.72	34.750	27.53
.		346	4.71	34.810	27.58
.		390	5.16	34.920	27.61
.		400	5.12	34.920	27.62
.		440	5.00	34.930	27.64
.		500	5.20	34.990	27.66
.		600	5.00	35.000	27.70
.		700	4.64	34.990	27.73
.		800	4.38	34.960	27.74
.		900	4.17	34.960	27.76
.		1000	4.07	34.950	27.76
.		1018	4.05	34.950	27.76

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
42 34.0N	048 19.0W	04	13	09.7	1971	10070
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE AMT.
3197	00			0	16	0 0
WIND		BARO-METER (MBS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT
10	05	291	09.	08.		971.044
09.7			0	0.23	32.730	25.75
08.4			10	5.05	32.710	25.01
.			20	9.50	32.720	25.04
.			30	4.65	32.028	26.81
.			40	3.25	33.040	26.32
.			50	3.24	33.130	26.40
.			62	2.40	33.340	26.05
.			73	2.65	33.380	26.05
.			75	2.60	33.910	26.75
.			79	2.33	33.018	26.66
.			100	3.59	33.970	27.03
.			110	4.00	34.000	27.05
.			125	3.82	34.190	27.10
.			150	5.20	34.500	27.27
.			175	4.16	34.560	27.04
.			200	4.32	34.790	27.01
.			205	5.00	34.640	27.40
.			220	4.23	34.500	27.45
.			250	4.90	34.000	27.94
.			250	9.12	34.618	27.53
.			300	5.00	34.020	27.95
.			400	4.90	34.090	27.62
.			500	4.71	34.930	27.07
.			550	4.43	34.920	27.70
.			700	4.22	34.920	27.72
.			800	4.12	34.930	27.74
.			900	4.01	34.930	27.75
.			1000	3.94	34.930	27.76
.			1015	3.92	34.930	27.76

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
43 04.0N	040 40.0W	04	13	13.0	1971	10072
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE AMT.
2174	12	0	2		14	0 0
WIND		BARO-METER (MBS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT
12	10	204	10.	10.		971.030
MESSENGER TIME	CYST NO.	DEPTH	TEMP	SAL	516-7	
14.1		0	9.97	32.000	25.01	
.		10	5.25	32.050	25.07	
00.4		20	5.14	32.050	25.00	
.		30	4.34	32.900	26.19	
.		50	3.72	33.300	26.49	
.		61	3.10	33.360	26.75	
.		75	3.20	33.690	26.84	
.		100	4.00	34.340	27.22	
.		125	9.57	34.920	27.25	
.		150	4.29	34.430	27.32	
.		160	4.22	34.400	27.30	
.		195	5.07	34.670	27.43	
.		200	4.90	34.640	27.44	
.		250	4.02	34.750	27.52	
.		300	4.77	34.620	27.50	
.		343	4.77	34.860	27.61	
.		400	4.70	34.900	27.65	
.		434	4.09	34.910	27.66	
.		500	4.34	34.910	27.68	
.		600	4.42	34.910	27.69	
.		700	4.20	34.920	27.72	
.		800	4.10	34.920	27.73	
.		900	4.03	34.920	27.74	
.		940	4.03	34.930	27.75	
.		1000	3.90	34.920	27.75	
.		1015	3.90	34.920	27.75	

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
43 02.0N	040 33.0W	04	13	11.7	1971	10071
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE AMT.
2749	11			0	10	0 6
WIND		BARO-METER (MBS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT
11	09	264	09.	09.		971.076
11.7			0	5.00	32.720	25.79
00.6			10	5.39	32.680	25.02
.			20	5.22	32.660	25.04
.			30	4.07	32.900	26.13
.			50	3.27	33.000	26.29
.			60	2.60	33.450	26.71
.			75	3.30	33.550	26.72
.			99	3.19	33.750	26.69
.			100	3.30	33.600	26.92
.			110	5.00	34.190	27.05
.			120	4.24	34.160	27.12
.			125	4.43	34.330	27.23
.			150	6.67	34.640	27.20
.			200	5.77	34.610	27.20
.			220	5.30	34.610	27.35
.			240	8.57	34.710	27.40
.			250	5.54	34.740	27.43
.			266	5.39	34.770	27.47
.			209	5.17	34.700	27.30
.			300	5.23	34.610	27.52
.			350	5.24	34.660	27.57
.			370	5.09	34.670	27.59
.			400	5.05	34.900	27.61
.			500	4.64	34.910	27.66
.			600	4.39	34.910	27.69
.			700	4.20	34.910	27.71
.			800	4.10	34.930	27.73
.			900	4.06	34.930	27.74
.			1000	3.97	34.930	27.76
.			1017	3.97	34.930	27.76

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
43 13.0N	040 00.0W	04	13	15.0	1971	10073
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE AMT.
1029				1	14	0 0
WIND		BARO-METER (MBS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT
11	10	271	11.	11.		970.900
15.0			0	1.04	32.950	26.62
.			10	0.40	32.950	26.49
00.4			20	0.42	32.960	26.50
.			30	0.50	33.050	26.50
.			30	0.71	33.100	26.60
.			50	0.01	33.600	27.00
.			50	0.20	33.610	26.99
.			60	0.20	33.610	26.99
.			75	0.04	33.040	27.15
.			100	2.02	34.100	27.27
.			125	3.02	34.440	27.30
.			140	4.00	34.460	27.37
.			190	3.91	34.490	27.41
.			155	4.10	34.380	27.39
.			160	4.01	34.510	27.42
.			170	4.07	34.690	27.45
.			190	5.08	34.720	27.47
.			200	4.94	34.710	27.47
.			212	4.02	34.720	27.58
.			240	5.10	34.820	27.54
.			250	5.00	34.820	27.45
.			300	4.66	34.820	27.90
.			400	4.01	34.900	27.64
.			500	4.90	34.910	27.67
.			600	4.49	34.930	27.70
.			700	4.32	34.930	27.72
.			800	4.20	34.930	27.73
.			810	4.15	34.930	27.74
.			900	4.06	34.930	27.74
.			940	3.99	34.930	27.75
.			1000	3.96	34.930	27.75
.			1014	3.95	34.930	27.76

TABLE I. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 5-13 April 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 19.0N	049 17.0W	04	13	18.5	1971	10874	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1097	13	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
12	08	261	11.	10.		971.099	
MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
18.0		0	0.52	32.660	26.22		
.		10	0.22	32.730	26.31		
00.2		20	0.36	32.760	26.34		
.		30	0.57	32.780	26.36		
.		50	0.99	32.920	26.49		
.		55	1.02	32.980	26.54		
.		75	0.85	33.080	26.61		
.		100	0.23	33.280	26.75		
.		125	0.07	33.420	26.86		
.		150	0.27	33.540	26.94		
.		200	0.99	33.880	27.17		
.		250	2.09	34.200	27.35		
.		300	3.78	34.690	27.58		
.		400	4.19	34.780	27.61		
.		500	4.32	34.820	27.63		
.		600	4.39	34.870	27.66		
.		700	4.47	34.900	27.68		
.		800	4.40	34.910	27.69		
.		900	4.38	34.920	27.70		
.		1000	4.26	34.920	27.72		
.		1049	4.27	34.920	27.72		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 25.0N	049 30.0W	04	13	20.4	1971	10876	
DEPTH TO BOTTOM	WAVE	OBSERVATIONS			WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0161	13	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
12	08	247	11.	10.		971.192	
MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
20.4		0	2.01	32.590	26.07		
.		10	0.75	32.650	26.20		
00.1		20	0.45	32.710	26.26		
.		30	0.15	32.740	26.30		
.		50	0.13	32.800	26.36		
.		75	0.31	32.870	26.42		
.		100	0.50	32.970	26.51		
.		125	0.57	33.160	26.67		
.		145	0.59	33.240	26.73		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 22.0N	049 23.0W	04	13	19.7	1971	10875	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0565	13	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
12	08	247	11.	10.		971.155	
MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
19.1		0	1.62	32.700	26.18		
.		10	1.62	32.700	26.18		
00.2		15	1.62	32.700	26.18		
.		20	1.52	32.700	26.19		
.		30	0.80	32.740	26.26		
.		45	0.73	32.840	26.42		
.		50	0.77	32.960	26.51		
.		60	0.72	32.960	26.51		
.		75	0.73	32.980	26.53		
.		100	0.77	33.100	26.63		
.		110	0.77	33.140	26.66		
.		125	0.67	33.190	26.70		
.		150	0.48	33.280	26.76		
.		172	0.43	33.380	26.84		
.		200	0.38	33.600	26.98		
.		242	1.06	33.820	27.12		
.		250	1.07	33.820	27.11		
.		264	0.99	33.880	27.17		
.		300	2.32	34.250	27.37		
.		326	3.09	34.520	27.52		
.		372	3.32	34.540	27.51		
.		400	3.64	34.650	27.57		
.		448	4.08	34.770	27.62		
.		500	4.11	34.790	27.63		
.		554	4.17	34.790	27.62		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 26.0N	049 46.0W	04	13	21.2	1971	10877	
DEPTH TO BOTTOM	WAVE	OBSERVATIONS			WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0060	13	0	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
12	08	244	11.	10.		971.202	
MESSNGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
21.2		0	2.05	32.660	26.12		
.		10	2.03	32.650	26.11		
00.1		15	2.03	32.640	26.10		
.		20	1.49	32.640	26.14		
.		30	1.00	32.630	26.16		
.		36	0.57	32.680	26.23		
.		50	0.49	32.730	26.27		
.		56	0.48	32.730	26.27		

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER	
				MO.	DAY	HR.			
47 00.0N		046 44.0W		05	12	21.0	1971	1047A	
DEPTH TO BOTTOM	WAVE OBSERVATIONS					WEATHER CODE	CLOUD CODES		
	DIR	HGT	PER	SEA	TYPE		AMT.		
1117	09	1	2		16	0	6		
WIND		BARO-METER (HRS)		AIR TEMP DEG C					
				DRY BULB	WET BULB				
DIR	SPEED			04.4	03.9	970.906			
09	12	220							
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T				
21.0		10	1.45	33.030	26.46				
.		15	1.44	33.070	26.46				
00.8		21	1.43	33.040	26.47				
.		33	1.24	32.980	26.43				
.		50	0.98	33.200	26.63				
.		53	0.69	33.230	26.67				
.		55	0.34	33.360	26.80				
.		64	0.19	33.500	26.91				
.		67	0.21	33.650	27.03				
.		69	0.22	33.540	26.96				
.		72	0.07	33.690	27.07				
.		75	0.35	33.840	27.18				
.		77	0.80	34.270	27.50				
.		81	1.59	34.150	27.35				
.		83	1.65	34.020	27.24				
.		87	2.13	34.550	27.63				
.		89	2.72	34.370	27.43				
.		93	2.92	34.330	27.38				
.		101	2.81	34.290	27.36				
.		104	2.87	34.340	27.40				
.		107	3.14	34.510	27.51				
.		112	3.39	34.480	27.46				
.		116	3.63	34.530	27.47				
.		128	4.15	34.600	27.48				
.		137	4.29	34.610	27.47				
.		140	4.19	34.540	27.42				
.		142	4.14	34.630	27.50				
.		145	4.19	34.630	27.49				
.		148	4.16	34.590	27.47				
.		151	4.03	34.510	27.42				
.		154	3.95	34.590	27.49				
.		160	3.96	34.770	27.63				
.		163	4.20	34.760	27.60				
.		166	4.35	34.740	27.57				
.		169	4.29	34.670	27.52				
.		171	4.25	34.740	27.58				
.		177	4.38	34.750	27.57				
.		189	4.72	34.810	27.58				
.		191	4.67	34.770	27.56				
.		198	4.36	34.710	27.55				
.		201	4.09	34.630	27.51				
.		204	3.77	34.660	27.57				
.		206	3.89	34.810	27.68				
.		216	4.05	34.830	27.67				
.		220	4.30	34.890	27.70				
.		223	4.46	34.920	27.70				
.		225	4.70	35.030	27.76				
.		228	4.94	34.960	27.67				
.		233	4.98	34.950	27.67				
.		243	4.80	34.900	27.64				
.		247	4.59	34.830	27.61				
.		251	4.47	34.920	27.70				
.		256	4.58	34.910	27.68				
.		261	4.38	34.880	27.67				
.		267	4.37	34.880	27.67				
.		274	4.17	34.860	27.68				
.		281	4.16	34.880	27.70				
.		307	4.32	34.920	27.72				
.		312	4.33	34.920	27.71				
.		327	4.55	34.970	27.72				
.		343	4.87	35.030	27.74				
.		355	4.78	34.990	27.72				
.		376	4.62	34.990	27.73				
.		409	4.50	34.980	27.74				
.		450	4.52	34.990	27.75				
.		514	4.44	34.990	27.76				
.		553	4.35	34.970	27.75				
.		612	4.30	34.980	27.76				
.		655	4.23	34.970	27.76				
.		707	4.18	34.960	27.76				
.		769	4.13	34.950	27.76				
.		803	4.08	34.940	27.76				
.		863	4.04	34.940	27.76				
.		905	4.01	34.930	27.76				
.		964	3.96	34.930	27.76				
.		1004	3.89	34.920	27.76				

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	046 57.0W	05	13	01.2	1971	10A79	
DEPTH TO BOTTOM	WAVE OBSERVATIONS					CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE	AMT.
1094	00	1	2		X6	0	A
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
09	11	203	03.9	03.3	971.010		

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
01.2		0	1.28	32.700	26.20
		10	1.23	32.700	26.21
00.3		20	1.18	32.660	26.18
		30	0.77	32.700	26.24
		50	0.98	32.680	26.44
		58	1.06	33.080	26.62
		75	0.96	33.420	26.89
		100	0.25	33.660	27.04
		110	0.44	33.750	27.10
		125	0.46	33.850	27.18
		135	0.47	33.920	27.23
		150	0.98	34.080	27.33
		200	2.63	34.400	27.48
		238	2.97	34.530	27.53
		250	3.13	34.580	27.56
		300	4.13	34.800	27.64
		400	4.45	34.910	27.69
		500	4.49	34.920	27.70
		600	4.45	34.930	27.71
		700	4.36	34.930	27.72
		800	4.25	34.930	27.73
		900	4.16	34.930	27.74
		1000	4.02	34.940	27.76
		1050	3.98	34.940	27.76

LATITUDE	LONGITUDE	STATION TIME (GMT)		YEAR	STATION NUMBER		
		MO.	DAY HR.				
46 59.0N	047 16.0W	05	13 02.0	1971	10880		
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0236	00	2	2		X6	0	0
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
09	11	178	02.8	02.2		971.101	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
02.0		10	1.33	32.760	26.25
		21	1.28	32.790	26.25
00.1		29	0.81	32.790	26.24
		31	0.70	32.740	26.27
		36	0.73	32.740	26.28
		39	0.67	32.740	26.28
		47	0.28	32.680	26.25
		52	0.48	32.790	26.33
		56	0.75	32.710	26.32
		59	1.04	32.790	26.39
		62	0.98	32.860	26.44
		65	0.96	32.790	26.39
		68	1.09	32.870	26.45
		71	1.01	32.900	26.48
		76	1.10	32.920	26.50
		79	1.24	32.930	26.51
		89	1.32	32.960	26.54
		96	1.23	33.100	26.64
		99	1.10	33.100	26.70
		102	0.82	33.240	26.75
		110	0.59	33.290	26.78
		113	0.34	33.380	26.84
		121	0.16	33.380	26.83
		124	0.02	33.420	26.86
		126	0.00	33.390	26.83
		129	0.10	33.390	26.84
		132	0.15	33.430	26.87
		137	0.00	33.490	26.88
		141	0.27	33.950	26.97
		143	0.10	33.980	27.00
		146	0.21	33.620	27.01
		149	0.15	33.550	26.96
		151	0.20	33.680	27.04
		179	1.09	33.840	27.14
		202	1.31	33.940	27.20

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
46 58.0N	047 04.8W	05	13	04.0	1971	10B81
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE AMT.
0500	09	1	2		X4	0 6
WIND		BARO-METER (HRS)		AIR TEMP DEG C		
DIR	SPEED			DRY BULB	WET BULB	VIS CODE DYN HT
09	15	173		01.1	00.0	971.064

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
04.0		11	1.29	32.720	26.22
		20	1.29	32.720	26.22
00.4		23	1.29	32.720	26.22
		32	1.10	32.660	26.19
		35	0.79	32.640	26.23
		40	0.72	32.750	26.20
		46	0.36	32.730	26.29
		49	0.01	32.590	26.19
		52	0.65	32.680	26.29
		54	1.12	32.750	26.36
		60	1.04	32.840	26.47
		74	1.17	32.980	26.54
		77	1.13	32.980	26.54
		80	1.14	33.030	26.59
		84	1.03	33.190	26.71
		89	0.73	33.240	26.74
		91	0.61	33.220	26.73
		102	0.56	33.370	26.84
		105	0.49	33.480	26.86
		116	0.10	33.510	26.94
		119	0.21	33.450	26.89
		122	0.40	33.440	26.93
		125	0.47	33.530	26.97
		127	0.02	33.640	27.08
		131	0.30	33.830	27.01
		143	0.53	33.720	27.07
		147	0.76	33.750	27.08
		154	0.95	33.780	27.10
		154	0.98	33.790	27.10
		176	1.03	33.870	27.16
		178	1.07	33.840	27.17
		190	1.23	33.940	27.21
		204	1.45	34.020	27.26
		233	1.94	34.190	27.35
		240	2.04	34.210	27.38
		252	2.31	34.320	27.43
		278	2.76	34.450	27.49
		294	2.88	34.470	27.50
		302	3.20	34.540	27.53
		310	3.35	34.590	27.55
		331	3.71	34.680	27.58
		352	4.03	34.760	27.61
		376	4.20	34.800	27.63
		407	4.24	34.810	27.64

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 56.0N	047 30.0W	05	13	06.0	1971	108A2	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0190	09	0	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
09	15	159	01.1	00.0			971.121
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
06.0		9	1.29	32.650	26.17		
.		20	1.29	32.660	26.17		
00.3		23	1.29	32.660	26.17		
.		26	1.26	32.640	26.16		
.		32	1.05	32.660	26.19		
.		34	1.01	32.670	26.20		
.		48	0.90	32.660	26.20		
.		51	0.74	32.690	26.23		
.		54	0.31	32.650	26.23		
.		60	0.37	32.750	26.33		
.		63	0.54	32.810	26.39		
.		71	0.50	32.830	26.41		
.		77	0.80	32.820	26.41		
.		79	0.91	32.830	26.41		
.		82	1.06	32.860	26.45		
.		93	1.18	32.930	26.51		
.		100	1.09	33.040	26.59		
.		103	0.98	33.050	26.60		
.		127	0.60	33.200	26.71		
.		130	0.49	33.260	26.75		
.		133	0.31	33.270	26.75		
.		150	0.13	33.470	26.89		
.		153	0.26	33.480	26.90		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 52.0N	048 04.0W	05	13	10.0	1971	10884	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0126	04	1	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
09	10	152	02.2	00.6			971.118
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
10.0		7	1.53	32.720	26.20		
.		10	1.52	32.720	26.20		
00.1		22	1.51	32.720	26.21		
.		25	1.52	32.720	26.20		
.		30	1.52	32.720	26.20		
.		33	1.51	32.720	26.21		
.		35	1.51	32.720	26.21		
.		52	1.17	32.720	26.23		
.		58	0.79	32.650	26.19		
.		61	0.07	32.570	26.17		
.		63	0.38	32.770	26.35		
.		71	0.55	32.760	26.35		
.		77	0.68	32.860	26.43		
.		83	0.96	32.890	26.47		
.		85	1.08	32.990	26.55		
.		91	0.65	33.080	26.61		
.		102	0.48	33.150	26.66		
.		105	0.44	33.190	26.69		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 55.0N	047 49.0W	05	13	08.5	1971	108A3	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0152	04	1	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
04	12	149	01.1	00.0			971.119
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
08.5		8	1.26	32.720	26.22		
.		10	1.25	32.720	26.22		
00.1		13	1.25	32.720	26.23		
.		21	1.25	32.720	26.23		
.		24	1.25	32.720	26.23		
.		27	1.25	32.710	26.22		
.		32	1.24	32.730	26.23		
.		35	1.24	32.730	26.23		
.		51	1.08	32.750	26.26		
.		54	1.05	32.740	26.25		
.		60	0.79	32.750	26.28		
.		71	0.31	32.830	26.40		
.		76	0.45	32.860	26.42		
.		79	0.54	32.850	26.42		
.		85	0.88	32.960	26.52		
.		90	1.04	33.040	26.59		
.		93	0.96	33.080	26.63		
.		103	0.51	33.180	26.69		
.		104	0.44	33.210	26.70		
.		125	0.07	33.340	26.79		
.		129	0.05	33.340	26.79		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	048 31.0W	05	20	02.3	1971	108A5	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0106	00			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
17	04	301	08.9	08.9		971.110	
02.3		0	3.90	32.590	25.91		
.		3	3.90	32.590	25.91		
00.2		10	1.84	32.580	26.07		
.		20	1.47	32.610	26.13		
.		30	1.33	32.600	26.12		
.		45	1.04	32.590	26.13		
.		50	0.19	32.580	26.17		
.		63	0.71	32.830	26.41		
.		70	0.72	32.860	26.43		
.		75	0.81	32.890	26.47		
.		97	0.67	33.040	26.58		

TABLE 11. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	048 17.0W	05	20	03.5	1971	10886	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0117	00			0	X4	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
00	00	298	10.0	09.4		971.107	

03.5	9	3.86	32.630	25.94
.	15	3.03	32.410	25.84
00.1	18	2.35	32.490	25.96
.	20	2.03	32.550	26.04
.	23	1.81	32.610	26.10
.	26	1.64	32.650	26.14
.	31	1.47	32.630	26.14
.	34	1.27	32.600	26.13
.	37	1.17	32.660	26.18
.	50	1.09	32.660	26.19
.	53	0.91	32.630	26.18
.	56	0.43	32.530	26.12
.	59	0.04	32.700	26.28
.	61	0.15	32.690	26.28
.	67	0.66	32.760	26.35
.	78	0.96	32.840	26.43
.	81	1.11	32.870	26.46
.	97	1.20	32.980	26.55
.	102	0.68	33.140	26.66

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	048 05.0W	05	20	05.1	1971	10887	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0137	14	0	2		X4	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
13	06	295	10.0	09.4		971.097	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
05.1		9	3.85	32.620	25.93
.		15	3.40	32.570	25.94
00.2		18	2.34	32.340	25.85
.		20	1.78	32.660	26.14
.		32	1.28	32.670	26.18
.		34	1.14	32.680	26.20
.		37	1.07	32.700	26.22
.		42	1.09	32.700	26.22
.		45	1.00	32.670	26.20
.		48	0.70	32.600	26.16
.		50	0.26	32.690	26.25
.		55	0.34	32.750	26.33
.		59	0.48	32.810	26.39
.		77	0.99	32.830	26.42
.		88	1.21	33.010	26.58
.		94	0.93	33.120	26.65
.		98	0.70	33.190	26.71
.		103	0.50	33.230	26.72
.		125	0.27	33.300	26.77

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	047 48.0W	05	20	06.4	1971	10888	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0168	14	0	2	X4		0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
13	07	295	10.0	09.4		971.102	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
06.4		13	3.13	32.440	25.86
.		15	2.66	32.640	26.06
00.2		18	2.40	32.590	26.04
.		21	1.80	32.560	26.06
.		24	1.56	32.690	26.18
.		29	1.50	32.710	26.20
.		32	1.41	32.680	26.18
.		49	1.03	32.710	26.23
.		52	0.85	32.640	26.18
.		55	0.51	32.740	26.28
.		58	0.40	32.700	26.26
.		69	0.40	32.780	26.36
.		75	0.83	32.810	26.40
.		78	0.94	32.860	26.44
.		87	1.05	32.960	26.53
.		100	0.80	33.120	26.65
.		125	0.27	33.300	26.77
.		156	0.21	33.460	26.88

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 50.0N	047 33.0W	05	20	09.2	1971	10889	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
020R	19			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
17	05	464	07.2	07.2		971.076	

08.2	9	3.47	32.630	25.98
.	12	3.31	32.610	25.98
00.1	15	3.04	32.580	25.98
.	17	2.43	32.580	26.03
.	20	2.04	32.610	26.08
.	23	1.75	32.620	26.11
.	26	1.36	32.580	26.11
.	29	1.03	32.700	26.22
.	32	0.93	32.690	26.22
.	35	0.76	32.730	26.26
.	43	0.64	32.720	26.26
.	51	0.01	32.690	26.27
.	53	0.55	32.630	26.25
.	56	1.11	32.810	26.41
.	59	1.02	32.830	26.42
.	68	1.26	32.900	26.48
.	74	1.26	32.970	26.54
.	76	1.14	33.000	26.56
.	79	1.00	33.020	26.57
.	94	0.73	33.100	26.63
.	96	0.74	33.100	26.63
.	99	0.86	33.090	26.63
.	101	0.89	33.170	26.69
.	110	0.49	33.230	26.73
.	127	0.12	33.380	26.83
.	150	0.06	33.530	26.94
.	156	0.16	33.610	27.00
.	162	0.50	33.660	27.02
.	165	0.58	33.650	27.02
.	176	0.57	33.710	27.06
.	202	0.90	33.810	27.12

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 01.0N	047 14.0W	05	20	09.7	1971	10890	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0380	14			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	10	301	07.8	07.8		971.077	

09.7	9	3.41	32.620	25.98
.	12	3.35	32.620	25.98
00.4	14	3.16	32.540	25.94
.	17	2.82	32.570	25.99
.	20	2.32	32.580	26.04
.	23	2.15	32.570	26.04
.	26	1.82	32.460	25.98
.	29	1.23	32.590	26.12
.	31	1.01	32.590	26.14
.	36	0.58	32.690	26.24
.	51	0.25	32.700	26.27
.	56	0.59	32.690	26.29
.	59	0.81	32.820	26.40
.	77	1.28	32.990	26.56
.	81	1.20	32.990	26.56
.	83	1.26	33.030	26.59
.	86	1.20	33.100	26.65
.	93	1.05	33.150	26.68
.	95	0.79	33.190	26.71
.	101	0.70	33.210	26.72
.	127	0.04	33.480	26.91
.	135	0.11	33.470	26.89
.	146	0.03	33.590	27.00
.	149	0.16	33.590	26.98
.	152	0.20	33.600	26.99
.	177	0.54	33.710	27.06
.	182	0.34	33.740	27.10
.	191	0.42	33.800	27.14
.	194	0.62	33.860	27.18
.	197	0.73	33.860	27.17
.	202	0.80	33.890	27.19
.	205	0.84	33.890	27.19
.	208	0.52	33.820	27.15
.	211	0.31	33.900	27.23
.	219	0.33	33.930	27.25
.	222	0.61	34.110	27.38
.	225	0.98	34.010	27.28
.	228	0.97	34.080	27.34
.	233	1.42	34.130	27.35
.	239	1.46	34.180	27.38
.	244	1.80	34.260	27.42
.	251	2.41	34.350	27.44
.	277	2.60	34.390	27.46
.	300	2.83	34.460	27.49
.	323	3.05	34.580	27.57
.	326	3.23	34.610	27.57
.	332	3.33	34.630	27.59
.	338	3.57	34.710	27.63
.	345	4.07	34.810	27.66
.	351	4.25	34.850	27.67

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME			YEAR	STATION NUMBER
				(GMT)				
				MO.	DAY	HR.		
47 01.0N		047 02.0W		05	20	11.3	1971	10A91
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		
	DIR	HGT	PER	SFA		TYPE	AMT.	
1102	14			0	X4	0	6	
WIND		BARO-METER (MAS)		AIR TEMP DEG C				
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT	
16	06	30A		07.8	07.8		971.023	
11.3				19	2.16	32.520	26.00	
.				22	1.67	32.570	26.08	
00.3				25	1.38	32.580	26.10	
.				31	1.00	32.680	26.21	
.				34	0.85	32.650	26.19	
.				36	0.55	32.640	26.20	
.				39	0.33	32.730	26.28	
.				53	0.53	32.740	26.33	
.				61	1.35	32.840	26.44	
.				63	1.39	32.940	26.52	
.				77	1.11	33.220	26.74	
.				80	1.06	33.300	26.80	
.				83	0.88	33.410	26.89	
.				85	0.56	33.400	26.86	
.				91	0.21	33.380	26.83	
.				94	0.55	33.260	26.75	
.				97	0.94	33.370	26.85	
.				99	0.91	33.460	26.93	
.				102	0.68	33.580	27.01	
.				105	0.12	33.660	27.05	
.				107	0.19	33.620	27.01	
.				110	0.18	33.550	26.95	
.				113	0.02	33.590	27.00	
.				116	0.18	33.700	27.08	
.				126	0.48	33.690	27.05	
.				144	0.55	33.790	27.13	
.				147	0.69	33.860	27.18	
.				153	0.73	33.900	27.21	
.				157	0.93	33.920	27.21	
.				160	0.74	33.850	27.16	
.				163	0.33	33.830	27.17	
.				167	0.15	33.920	27.25	
.				177	0.61	34.070	27.35	
.				180	0.88	34.120	27.37	
.				186	1.47	34.190	27.39	
.				195	1.79	34.240	27.41	
.				201	2.25	34.320	27.43	
.				227	2.61	34.450	27.51	
.				251	3.11	34.550	27.54	
.				261	3.03	34.510	27.53	
.				278	3.40	34.650	27.59	
.				302	3.57	34.700	27.62	
.				325	4.10	34.800	27.64	
.				352	4.32	34.840	27.65	
.				379	4.40	34.860	27.66	
.				403	4.43	34.880	27.67	
.				460	4.51	34.910	27.68	
.				510	4.53	34.930	27.70	
.				562	4.47	34.930	27.70	
.				614	4.38	34.930	27.71	
.				667	4.29	34.920	27.72	
.				750	4.17	34.920	27.73	
.				807	4.11	34.920	27.74	
.				862	4.10	34.920	27.74	
.				917	4.04	34.920	27.74	
.				971	3.98	34.920	27.75	
.				1024	3.94	34.920	27.75	

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	046 48.0W	05	20	12.9	1971	10892	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
1152	00			0	X4	0	6
WIND		RADO-METER (MRS)	AIR TEMP DEG C				
DIP	SPFEO		DRY RULR	WET RULR	VIS CODE	DYN WT	
18	10	122	09.4	08.9			970.994
12.9			10	3.75	32.520	25.87	
.			18	2.79	32.510	25.94	
00.4			21	2.36	32.520	25.99	
.			24	1.89	32.440	25.96	
.			27	1.20	32.560	26.10	
.			29	1.02	32.660	26.19	
.			32	0.98	32.720	26.24	
.			35	1.12	32.730	26.24	
.			38	0.88	32.680	26.22	
.			41	0.33	32.750	26.10	
.			43	0.19	32.740	26.30	
.			47	0.19	32.790	26.14	
.			50	0.00	32.800	26.36	
.			53	0.39	32.700	26.29	
.			55	1.18	33.020	26.58	
.			58	0.11	33.250	26.73	
.			61	0.19	33.220	26.70	
.			66	0.43	33.330	26.81	
.			69	0.35	33.460	26.91	
.			71	0.08	33.530	26.94	
.			74	0.27	33.490	26.90	
.			77	0.22	33.540	26.94	
.			80	0.21	33.570	26.96	
.			82	0.34	33.720	27.08	
.			85	0.94	33.850	27.15	
.			87	1.11	33.750	27.05	
.			90	1.27	33.770	27.07	
.			93	1.06	33.730	27.05	
.			96	0.75	33.730	27.07	
.			99	0.70	33.800	27.13	
.			102	0.96	33.890	27.19	
.			105	1.11	33.860	27.15	
.			107	0.87	33.920	27.21	
.			110	1.17	33.960	27.22	
.			113	1.08	33.950	27.22	
.			119	1.54	34.050	27.27	
.			121	1.98	34.090	27.27	
.			124	2.08	34.160	27.32	
.			127	2.57	34.280	27.37	
.			131	2.91	34.230	27.31	
.			134	2.93	34.180	27.26	
.			137	2.55	33.980	27.13	
.			140	1.83	34.090	27.28	
.			143	1.67	34.140	27.34	
.			151	1.82	34.210	27.38	
.			160	2.11	34.270	27.41	
.			163	2.24	34.360	27.46	
.			165	2.49	34.330	27.42	
.			177	3.07	34.450	27.47	
.			180	3.29	34.550	27.52	
.			183	3.59	34.520	27.48	
.			186	3.51	34.520	27.48	
.			189	3.59	34.590	27.53	
.			192	3.87	34.570	27.48	
.			196	3.76	34.520	27.45	
.			201	3.21	34.500	27.49	
.			205	3.26	34.530	27.51	
.			210	3.02	34.550	27.55	
.			227	3.36	34.620	27.58	
.			238	3.79	34.700	27.59	
.			241	4.01	34.820	27.67	
.			244	4.32	34.800	27.62	
.			247	4.39	34.790	27.59	
.			252	4.19	34.760	27.60	
.			257	4.11	34.750	27.60	
.			260	4.15	34.790	27.63	
.			277	4.41	34.820	27.62	
.			283	4.54	34.850	27.64	
.			300	4.54	34.850	27.64	
.			327	4.67	34.890	27.65	
.			352	4.68	34.910	27.67	
.			378	4.71	34.940	27.68	
.			400	4.59	34.920	27.68	
.			451	4.57	34.910	27.69	
.			506	4.59	34.940	27.70	
.			554	4.46	34.940	27.72	
.			605	4.74	34.910	27.72	
.			658	4.27	34.910	27.73	
.			713	4.20	34.910	27.73	
.			755	4.16	34.920	27.73	

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
47 00.0N	046 33.0W	05	20	14.4	1971	10A93
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
0413	00			0	X4	0
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
16	06	322	10.0	09.4		970.403

14.4		9	5.01	32.900	26.04
.		12	4.96	32.890	26.04
00.4		15	4.75	32.830	26.01
.		18	3.97	32.720	26.00
.		21	2.63	32.760	26.16
.		24	2.05	32.720	26.17
.		29	1.59	32.910	26.35
.		33	1.68	32.990	26.41
.		38	1.75	32.950	26.37
.		40	1.70	33.030	26.44
.		43	1.89	33.030	26.43
.		46	1.55	32.880	26.34
.		48	1.19	32.920	26.39
.		51	1.07	32.970	26.44
.		54	0.72	32.970	26.46
.		59	0.43	33.080	26.56
.		62	0.43	33.360	26.79
.		64	1.06	33.570	26.92
.		67	1.41	33.580	26.91
.		75	2.00	33.720	26.97
.		78	1.59	33.760	27.03
.		82	1.86	33.870	27.10
.		84	1.95	33.850	27.08
.		87	1.95	33.860	27.09
.		92	1.81	33.950	27.17
.		95	2.04	34.170	27.33
.		98	2.37	33.970	27.14
.		101	1.39	33.950	27.20
.		106	1.14	34.060	27.31
.		116	2.17	34.270	27.40
.		119	2.49	34.270	27.37
.		121	2.68	34.240	27.33
.		124	2.54	34.260	27.36
.		127	2.55	34.280	27.37
.		134	2.51	34.300	27.40
.		150	2.78	34.400	27.45
.		153	2.92	34.420	27.46
.		156	3.12	34.500	27.50
.		159	3.43	34.510	27.48
.		167	4.09	34.600	27.48
.		170	4.16	34.610	27.49
.		176	4.53	34.740	27.54
.		202	4.91	34.810	27.56
.		226	4.72	34.850	27.61
.		251	4.66	34.850	27.62
.		275	4.50	34.860	27.65
.		301	4.50	34.860	27.65
.		326	4.36	34.860	27.66
.		352	4.40	34.870	27.66
.		378	4.37	34.880	27.68

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
47 00.0N	046 11.0W	05	20	16.4	1971	10A94
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SFA	WEATHER CODE	TYPE
0331	14	1	2		X4	0
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
17	06	315	10.0	09.4		970.960

MESSFNGR TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
16.4		10	4.62	32.850	26.04
.		12	4.39	32.830	26.05
00.4		15	3.87	32.930	26.18
.		18	3.08	33.040	26.34
.		21	2.84	33.050	26.37
.		23	2.73	33.090	26.41
.		26	2.68	33.080	26.41
.		29	2.68	33.230	26.53
.		32	2.86	33.180	26.47
.		37	2.86	33.250	26.53
.		40	2.51	33.140	26.47
.		43	1.49	33.130	26.54
.		47	1.44	33.410	26.77
.		49	1.91	33.510	26.81
.		53	2.26	33.660	26.91
.		55	2.49	33.670	26.89
.		75	2.47	33.760	26.96
.		101	2.29	33.990	27.17
.		107	2.48	34.030	27.18
.		116	1.86	34.050	27.25
.		119	1.95	34.110	27.29
.		126	1.71	34.120	27.31
.		134	2.08	34.220	27.37
.		140	2.68	34.370	27.44
.		143	3.43	34.560	27.52
.		146	3.97	34.650	27.54
.		149	4.37	34.690	27.53
.		152	4.66	34.690	27.49
.		177	5.25	34.790	27.50
.		202	5.36	34.870	27.55
.		227	5.19	34.890	27.59
.		244	5.09	34.880	27.59
.		249	4.69	34.820	27.59
.		252	4.57	34.830	27.61
.		277	4.47	34.850	27.64
.		302	4.61	34.890	27.66

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 01.0N	045 48.0W	05	20	19.0	1971	10895	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0276	14	0	2		Y4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	06	315	10.0	09.4		971.033	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
19.0		21	3.05	32.960	26.28
.		24	2.71	32.980	26.33
00.2		29	2.46	33.030	26.38
.		32	2.53	33.200	26.52
.		35	3.39	33.340	26.55
.		38	3.54	33.240	26.46
.		43	2.78	33.200	26.49
.		46	2.32	33.520	26.79
.		49	2.64	33.330	26.61
.		52	1.15	33.150	26.58
.		55	0.47	33.310	26.75
.		57	0.11	33.410	26.84
.		60	0.57	33.840	27.16
.		63	1.46	33.850	27.12
.		65	1.57	33.560	26.88
.		68	0.87	33.630	26.98
.		71	0.71	33.690	27.04
.		74	0.74	33.730	27.07
.		76	1.15	34.080	27.32
.		79	2.05	33.960	27.16
.		92	2.14	33.980	27.17
.		90	2.79	34.100	27.21
.		93	2.78	34.040	27.16
.		95	2.73	34.180	27.28
.		101	3.28	34.250	27.29
.		107	3.44	34.290	27.30
.		112	3.98	34.440	27.37
.		115	4.19	34.420	27.33
.		119	4.45	34.630	27.47
.		122	4.99	34.580	27.37
.		125	5.08	34.620	27.39
.		128	5.04	34.450	27.26
.		130	4.39	34.450	27.33
.		134	4.26	34.490	27.38
.		139	4.54	34.560	27.41
.		145	4.60	34.510	27.36
.		148	4.36	34.510	27.39
.		150	4.30	34.550	27.42
.		161	4.55	34.600	27.43
.		167	4.36	34.620	27.47
.		175	4.44	34.650	27.49
.		181	4.43	34.700	27.53
.		185	4.61	34.720	27.52
.		195	4.79	34.750	27.53
.		201	4.75	34.780	27.55
.		228	4.91	34.840	27.59
.		239	4.95	34.830	27.57
.		252	4.71	34.830	27.60

LATITUDE		LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
			MO.	DAY	HR.			
47 15.0N		045 48.0W		05	20	20.0	1971	10896
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		
	DIR	HGT	PER	SFA		TYPE	AMT.	
0278	14	0	2		X4	0	6	
WIND		BARO-METER (MRS)	AIR TEMP DEG C					
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT		
20	10	318	10.0	09.4		970.969		
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T			
20.0		13	6.64	33.450	26.27			
.		15	6.29	33.350	26.24			
00.3		18	5.92	33.450	26.37			
.		21	5.84	33.510	26.42			
.		24	5.50	33.450	26.42			
.		32	4.78	33.580	26.60			
.		37	4.59	33.600	26.64			
.		42	4.24	33.630	26.70			
.		51	4.12	33.680	26.75			
.		56	4.10	33.710	26.78			
.		59	4.00	33.680	26.76			
.		67	3.17	33.670	26.83			
.		70	3.15	33.730	26.88			
.		72	2.85	33.740	26.92			
.		78	2.73	33.850	27.01			
.		80	2.42	33.790	27.00			
.		83	2.20	33.840	27.06			
.		86	2.16	33.900	27.10			
.		88	2.29	34.000	27.17			
.		91	2.42	33.930	27.11			
.		94	2.38	33.990	27.16			
.		102	2.57	34.060	27.20			
.		118	2.96	34.180	27.26			
.		126	3.69	34.300	27.29			
.		129	3.76	34.340	27.31			
.		132	3.42	34.210	27.24			
.		134	3.28	34.290	27.32			
.		137	3.34	34.290	27.31			
.		140	3.25	34.330	27.35			
.		143	3.52	34.510	27.47			
.		151	4.29	34.520	27.40			
.		154	4.32	34.540	27.41			
.		156	4.44	34.620	27.46			
.		159	4.78	34.690	27.48			
.		161	4.97	34.670	27.44			
.		175	4.83	34.690	27.47			
.		178	4.72	34.680	27.48			
.		192	4.53	34.660	27.49			
.		194	4.25	34.690	27.54			
.		202	4.41	34.770	27.59			
.		214	4.60	34.800	27.58			
.		228	4.45	34.810	27.61			
.		251	4.46	34.850	27.64			

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 30.0N	045 43.0W	05	20	22.3	1971	10897	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0285	14			0	X4	0	6
WIND		BARO-METER (MAS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
21	08	322	10.0	09.4		970.968	

22.3		9	5.94	33.100	26.09		
.		11	5.92	33.070	26.07		
00.4		14	5.61	33.440	26.39		
.		16	5.48	33.480	26.44		
.		21	5.08	33.470	26.48		
.		24	4.94	33.480	26.50		
.		27	4.67	33.350	26.43		
.		29	4.19	33.370	26.50		
.		32	3.99	33.520	26.63		
.		35	4.19	33.560	26.65		
.		38	4.17	33.510	26.61		
.		41	3.94	33.420	26.66		
.		46	3.12	33.530	26.73		
.		51	2.57	33.630	26.86		
.		77	2.26	33.810	27.02		
.		80	2.23	33.830	27.05		
.		82	2.32	33.910	27.10		
.		85	2.50	33.930	27.10		
.		90	2.55	33.910	27.08		
.		93	2.14	33.840	27.06		
.		95	1.90	33.980	27.19		
.		98	2.67	34.530	27.66		
.		101	3.52	34.550	27.50		
.		104	4.45	34.500	27.37		
.		107	4.76	34.480	27.32		
.		110	4.85	34.460	27.29		
.		112	5.05	34.510	27.31		
.		121	5.25	34.500	27.28		
.		127	5.15	34.490	27.28		
.		129	5.09	34.500	27.30		
.		132	5.17	34.590	27.35		
.		135	5.35	34.590	27.34		
.		140	5.38	34.570	27.31		
.		143	5.04	34.350	27.18		
.		146	4.56	34.410	27.28		
.		152	4.27	34.390	27.30		
.		154	4.01	34.430	27.36		
.		157	3.95	34.410	27.35		
.		161	3.77	34.430	27.38		
.		163	3.95	34.510	27.43		
.		166	3.97	34.240	27.23		
.		170	2.97	34.320	27.17		
.		172	2.93	34.420	27.46		
.		176	3.70	34.760	27.65		
.		178	4.31	34.690	27.53		
.		181	4.69	34.790	27.57		
.		184	5.00	34.720	27.48		
.		186	4.80	34.620	27.42		
.		189	4.67	34.710	27.51		
.		192	4.81	34.730	27.51		
.		194	4.79	34.720	27.50		
.		198	4.67	34.630	27.45		
.		200	4.44	34.690	27.52		
.		222	4.47	34.730	27.55		
.		225	4.32	34.720	27.56		
.		227	4.30	34.770	27.59		
.		238	4.26	34.790	27.62		
.		252	4.49	34.850	27.64		
.		258	4.28	34.820	27.63		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 43.0N	045 41.0W	05	20	23.8	1971	10898	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0307	00			0	X4	0	6
WIND		BARO-METER (MAS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
24	07	322	07.8	07.8		970.964	

23.8		10	4.96	32.840	26.00		
.		13	4.82	32.750	25.94		
00.2		15	4.23	32.750	26.00		
.		18	3.84	32.750	26.04		
.		21	2.79	32.590	26.01		
.		24	1.97	32.660	26.13		
.		27	1.80	32.870	26.31		
.		29	1.89	32.850	26.29		
.		33	1.81	32.840	26.29		
.		35	1.40	32.720	26.22		
.		39	0.67	32.810	26.33		
.		42	0.81	33.160	26.60		
.		44	1.27	33.110	26.54		
.		47	1.19	33.220	26.63		
.		50	0.98	33.170	26.60		
.		53	0.66	33.260	26.69		
.		55	0.61	33.430	26.84		
.		69	0.50	33.580	26.96		
.		75	0.57	33.670	27.03		
.		81	0.59	33.840	27.16		
.		83	0.85	33.900	27.20		
.		102	1.66	34.090	27.29		
.		122	2.42	34.370	27.46		
.		125	2.78	34.450	27.49		
.		127	3.00	34.440	27.46		
.		130	3.22	34.440	27.44		
.		136	3.44	34.520	27.49		
.		145	4.26	34.680	27.53		
.		151	4.66	34.740	27.54		
.		166	4.79	34.700	27.49		
.		171	5.06	34.770	27.51		
.		177	4.97	34.720	27.48		
.		180	4.92	34.750	27.51		
.		193	4.82	34.760	27.53		
.		199	5.13	34.840	27.56		
.		201	5.14	34.830	27.55		
.		227	5.16	34.870	27.58		
.		249	4.65	34.820	27.60		
.		251	4.62	34.820	27.60		
.		276	4.38	34.830	27.64		

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 01.0N	045 44.0W	05	21	02.4	1971	10899	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0619	00			0	14	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY RULE	WET RULE	VIS CODE	DYN HT	
25	04	322	06.7	06.7		970.937	

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 22.5N	045 45.0W	05	21	05.9	1971	10900	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
1092	14	0	2		x4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
25	08	305	07.2	07.2		970.935	

02.4	8	5.10	32.840	25.98
.	10	4.93	32.680	25.87
09.4	13	3.41	32.680	26.02
.	16	2.37	32.840	26.24
.	18	2.42	33.070	26.42
.	21	2.90	33.120	26.42
.	24	2.83	33.130	26.44
.	27	2.64	33.140	26.46
.	32	2.52	33.130	26.46
.	35	2.43	33.150	26.48
.	38	2.42	33.150	26.48
.	40	2.30	33.140	26.49
.	43	1.98	33.120	26.49
.	46	1.51	33.210	26.60
.	49	1.29	33.290	26.68
.	51	0.97	33.390	26.78
.	54	0.70	33.440	26.84
.	60	0.63	33.590	26.96
.	62	0.81	33.650	27.00
.	65	0.81	33.710	27.04
.	70	1.25	33.860	27.14
.	73	1.60	33.920	27.17
.	76	1.82	33.840	27.08
.	79	1.40	33.800	27.08
.	81	1.04	33.850	27.14
.	84	1.30	34.050	27.29
.	87	2.06	34.090	27.27
.	89	2.30	34.120	27.27
.	95	1.81	33.960	27.18
.	98	1.60	34.050	27.27
.	100	1.64	34.070	27.28
.	106	1.78	34.100	27.29
.	114	1.64	34.160	27.35
.	118	1.83	34.220	27.39
.	129	3.11	34.480	27.48
.	135	3.91	34.630	27.53
.	138	4.22	34.600	27.47
.	142	4.30	34.620	27.47
.	149	4.72	34.690	27.48
.	152	4.72	34.690	27.48
.	159	4.79	34.730	27.51
.	176	5.10	34.770	27.51
.	181	5.01	34.780	27.52
.	187	5.16	34.800	27.52
.	190	5.03	34.780	27.52
.	194	4.99	34.840	27.57
.	204	5.28	34.860	27.55
.	226	5.04	34.870	27.59
.	251	5.13	34.900	27.61
.	277	4.96	34.920	27.64
.	302	5.06	34.950	27.65
.	329	4.62	34.900	27.66
.	362	4.56	34.910	27.68
.	383	4.62	34.930	27.69
.	413	4.54	34.930	27.70
.	470	4.46	34.930	27.71
.	555	4.35	34.920	27.71

MESSFNGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
05.9		17	3.12	32.550	25.95
.		24	1.91	32.540	26.03
00.2		26	1.31	32.660	26.17
.		29	1.01	32.690	26.22
.		32	0.58	32.730	26.27
.		35	0.36	32.910	26.43
.		38	0.28	33.060	26.55
.		40	0.09	33.140	26.62
.		43	0.02	33.210	26.69
.		46	0.16	33.380	26.83
.		52	0.15	33.530	26.96
.		64	0.19	33.800	27.15
.		79	1.18	34.160	27.38
.		86	1.40	34.220	27.41
.		93	1.76	34.280	27.44
.		100	1.59	34.280	27.45
.		104	1.62	34.310	27.48
.		107	1.84	34.380	27.51
.		114	2.56	34.470	27.52
.		128	2.86	34.500	27.52
.		141	3.01	34.510	27.52
.		145	2.69	34.450	27.50
.		149	2.49	34.470	27.54
.		153	2.49	34.500	27.55
.		174	2.63	34.560	27.59
.		181	2.94	34.630	27.62
.		188	3.36	34.690	27.63
.		202	3.63	34.710	27.62
.		227	4.09	34.810	27.65
.		253	4.29	34.840	27.66
.		277	4.36	34.860	27.66
.		307	4.40	34.890	27.68
.		326	4.44	34.900	27.68
.		356	4.46	34.910	27.69
.		385	4.46	34.920	27.69
.		414	4.46	34.920	27.70
.		462	4.45	34.930	27.71
.		508	4.42	34.930	27.71
.		659	4.30	34.930	27.72
.		906	4.01	34.920	27.75
.		1024	3.87	34.920	27.76

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 39.0N	045 44.0W	05	21	07.1	1971	10901	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
1094	14			0	x4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
25	06	315	07.8	07.8		970.901	

07.1		16	3.21	32.690	26.05		
.		21	2.37	32.820	26.22		
00.2		24	2.12	32.910	26.31		
.		30	1.91	32.930	26.35		
.		33	1.67	32.960	26.39		
.		36	1.25	32.970	26.43		
.		38	0.58	33.180	26.63		
.		41	0.29	33.290	26.73		
.		49	0.01	33.570	26.98		
.		53	0.17	33.810	27.16		
.		67	0.80	34.130	27.38		
.		69	1.08	34.200	27.42		
.		75	1.36	34.310	27.49		
.		84	1.61	34.310	27.47		
.		87	1.76	34.350	27.50		
.		101	1.81	34.390	27.52		
.		128	2.54	34.530	27.58		
.		153	3.13	34.640	27.61		
.		175	3.69	34.740	27.64		
.		203	4.01	34.800	27.65		
.		413	4.40	34.930	27.71		
.		512	4.29	34.920	27.72		
.		604	4.16	34.920	27.73		
.		656	4.10	34.920	27.74		
.		701	4.06	34.920	27.74		
.		766	3.97	34.920	27.75		
.		810	3.92	34.920	27.76		
.		855	3.86	34.910	27.76		
.		918	3.77	34.910	27.77		
.		962	3.75	34.920	27.77		
.		1017	3.72	34.920	27.78		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 19.0N	046 58.0W	05	21	13.1	1971	10902	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
1904	00			0	x4	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
17	04	318	11.1	10.6			970.922

13.1		11	4.03	32.660	25.95		
.		17	3.55	32.630	25.97		
00.2		19	3.21	32.620	25.99		
.		22	2.65	32.710	26.12		
.		25	2.08	32.870	26.29		
.		31	1.67	32.990	26.41		
.		34	1.58	33.060	26.47		
.		37	1.31	33.020	26.46		
.		40	0.86	33.140	26.59		
.		42	0.30	33.320	26.77		
.		45	0.09	33.400	26.84		
.		50	0.01	33.440	26.88		
.		53	0.01	33.540	26.95		
.		64	0.03	33.720	27.10		
.		78	0.63	33.990	27.28		
.		94	1.05	34.170	27.40		
.		100	1.46	34.230	27.42		
.		128	2.11	34.390	27.50		
.		153	2.77	34.560	27.58		
.		178	3.29	34.670	27.62		
.		203	3.56	34.730	27.64		
.		226	3.78	34.770	27.65		
.		251	3.91	34.790	27.66		
.		278	4.11	34.830	27.67		
.		300	4.22	34.860	27.68		
.		326	4.31	34.890	27.69		
.		353	4.36	34.900	27.70		
.		376	4.37	34.910	27.70		
.		403	4.38	34.920	27.70		
.		456	4.37	34.920	27.71		
.		507	4.31	34.920	27.72		
.		557	4.28	34.930	27.72		
.		601	4.24	34.930	27.73		
.		654	4.18	34.920	27.73		
.		700	4.14	34.920	27.73		
.		751	4.08	34.920	27.74		
.		807	4.01	34.920	27.75		
.		857	3.99	34.910	27.74		
.		915	3.92	34.910	27.75		
.		953	3.89	34.910	27.75		
.		1007	3.82	34.910	27.76		

TABLE 11. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
49 10.0N	047 15.0W	05	21	15.0	1971	10903	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0937	00			0	x4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
17	04	31.8	10.0	08.9		970.955	

15.0		15	2.60	32.540	25.99
.		20	1.35	32.570	26.10
00.2		23	1.08	32.460	26.03
.		25	0.31	32.650	26.23
.		29	0.43	32.860	26.38
.		31	0.04	32.650	26.24
.		34	0.98	33.170	26.69
.		37	0.80	33.260	26.76
.		39	0.92	33.360	26.85
.		42	0.83	33.460	26.92
.		45	0.52	33.670	27.08
.		47	0.04	33.590	26.99
.		53	0.17	33.620	27.01
.		56	0.31	33.640	27.02
.		59	0.33	33.640	27.02
.		64	0.22	33.680	27.06
.		67	0.27	33.750	27.11
.		73	0.60	33.810	27.14
.		76	0.59	33.810	27.14
.		84	0.53	33.840	27.17
.		87	0.63	33.970	27.27
.		89	0.88	34.000	27.28
.		94	0.78	33.950	27.24
.		103	0.98	34.020	27.29
.		105	1.16	34.130	27.36
.		108	1.45	34.160	27.36
.		125	1.96	34.250	27.40
.		128	2.03	34.320	27.45
.		131	2.30	34.330	27.43
.		150	2.48	34.370	27.45
.		175	2.69	34.420	27.47
.		201	2.83	34.470	27.50
.		226	2.95	34.500	27.52
.		252	3.09	34.560	27.55
.		278	3.38	34.650	27.60
.		300	3.77	34.740	27.62
.		326	4.00	34.790	27.65
.		350	4.23	34.840	27.66
.		377	4.36	34.880	27.67
.		402	4.40	34.890	27.68
.		453	4.42	34.910	27.70
.		502	4.40	34.920	27.71
.		555	4.34	34.930	27.72
.		607	4.26	34.930	27.72
.		660	4.18	34.930	27.73
.		702	4.09	34.920	27.74
.		754	4.01	34.920	27.75
.		806	3.94	34.920	27.75

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 05.0N	047 26.0W	05	21	16.7	1971	10904	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0457	00			0	x4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
18	08	31.5	10.0	08.9		970.984	

16.7		10	3.08	32.510	25.92
.		12	2.88	32.500	25.93
00.1		15	2.45	32.570	26.02
.		20	2.13	32.580	26.06
.		25	1.54	32.580	26.10
.		28	1.31	32.630	26.15
.		31	1.24	32.620	26.15
.		34	0.85	32.520	26.09
.		36	0.15	32.450	26.07
.		39	0.58	32.660	26.27
.		42	1.21	32.780	26.39
.		45	1.34	32.910	26.50
.		47	1.34	33.080	26.63
.		50	1.16	33.170	26.70
.		53	1.19	33.220	26.74
.		55	0.97	33.430	26.90
.		60	0.33	33.480	26.92
.		63	0.15	33.500	26.93
.		78	0.20	33.580	26.98
.		89	0.46	33.700	27.06
.		101	0.48	33.750	27.10
.		127	0.50	33.930	27.24
.		134	0.58	33.960	27.26
.		137	0.76	34.080	27.35
.		140	1.09	34.120	27.36
.		143	1.27	34.120	27.34
.		152	1.45	34.160	27.37
.		176	1.62	34.310	27.47
.		179	1.97	34.380	27.50
.		203	2.28	34.420	27.51
.		226	2.74	34.530	27.56
.		252	3.19	34.600	27.57
.		276	3.58	34.680	27.60
.		301	3.78	34.720	27.61
.		326	3.87	34.760	27.63
.		351	3.98	34.790	27.65
.		379	4.24	34.860	27.67
.		404	4.37	34.900	27.69

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
47 54.0N	047 37.0W	05	21	18.6	1971	10905
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIP	HGT	PER	SEA	WEATHER CODE	TYPE
0336	00			0	X4	0
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIP	SPEED		DRY RULE	WET RULE	VIS CODE	DYN HT
18	05	312	07.8	06.7		971.018

18.6	9	3.15	32.350	25.79
.	11	3.05	32.450	25.88
00.1	14	2.70	32.440	25.90
.	20	2.10	32.550	26.03
.	22	1.86	32.590	26.08
.	28	1.39	32.640	26.15
.	31	1.29	32.650	26.16
.	47	0.99	32.660	26.19
.	52	0.61	32.680	26.23
.	55	0.21	32.580	26.17
.	58	0.81	32.720	26.33
.	61	0.99	32.980	26.54
.	63	0.28	33.170	26.67
.	66	0.33	33.010	26.51
.	69	0.78	32.880	26.46
.	72	1.27	33.080	26.63
.	78	1.18	33.230	26.75
.	81	1.04	33.270	26.78
.	100	0.59	33.580	27.01
.	103	0.39	33.600	27.02
.	106	0.32	33.630	27.04
.	112	0.36	33.680	27.09
.	115	0.16	33.690	27.08
.	127	0.14	33.750	27.13
.	129	0.06	33.860	27.22
.	132	0.36	33.860	27.20
.	138	0.81	33.880	27.18
.	141	0.81	33.930	27.22
.	147	1.20	33.990	27.25
.	153	1.35	34.040	27.28
.	176	1.73	34.170	27.35
.	186	1.90	34.270	27.42
.	188	2.09	34.280	27.42
.	200	2.23	34.320	27.43
.	223	2.31	34.410	27.50
.	226	2.42	34.440	27.51
.	232	2.71	34.480	27.52
.	251	2.93	34.520	27.53
.	255	3.01	34.550	27.55
.	258	3.01	34.420	27.45
.	277	3.11	34.550	27.54
.	303	3.49	34.650	27.59
.	305	3.55	34.720	27.63
.	308	3.76	34.770	27.65

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
47 46.0N	047 41.0W	05	21	20.0	1971	10906
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIP	HGT	PER	SEA	WEATHER CODE	TYPE
0307	14	0	2		X4	0
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIP	SPEED		DRY RULE	WET RULE	VIS CODE	DYN HT
17	02	308	07.8	06.7		971.048

MESSANGER	CAST	DEPTH	TEMP	SAL	SIG-T
TIME	NO.				
20.0		8	3.44	32.580	25.94
.		11	3.03	32.260	25.72
00.1		13	2.16	32.400	25.90
.		16	1.81	32.400	25.93
.		19	1.46	32.550	26.08
.		22	1.36	32.650	26.16
.		24	1.39	32.620	26.13
.		33	1.05	32.600	26.14
.		35	0.76	32.560	26.13
.		38	0.22	32.520	26.12
.		41	0.43	32.700	26.30
.		44	0.59	32.740	26.34
.		47	1.01	32.630	26.26
.		51	1.20	32.830	26.43
.		54	0.93	32.810	26.41
.		59	1.19	32.830	26.42
.		76	1.37	32.920	26.50
.		81	1.46	32.950	26.53
.		92	1.34	33.150	26.69
.		100	0.80	33.280	26.78
.		103	0.65	33.280	26.78
.		105	0.64	33.270	26.76
.		108	0.74	33.320	26.81
.		111	0.67	33.340	26.82
.		114	0.70	33.450	26.91
.		117	0.63	33.360	26.84
.		120	0.83	33.450	26.92
.		124	0.78	33.530	26.98
.		126	0.61	33.560	26.99
.		152	0.12	33.780	27.14
.		158	0.13	33.820	27.19
.		163	0.09	33.860	27.22
.		166	0.06	33.980	27.30
.		169	0.41	34.000	27.30
.		174	0.50	33.970	27.27
.		177	0.62	34.030	27.32
.		182	0.98	34.050	27.31
.		186	1.06	34.050	27.30
.		190	1.22	34.140	27.37
.		194	1.52	34.130	27.34
.		201	1.64	34.160	27.36
.		227	2.24	34.220	27.41
.		253	2.45	34.380	27.46

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 39.0N	047 55.0W	05	21	21.4	1971	10907	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DID	HGT	PER	SFA		TYPE	AMT.
025A	14			0	14	0	A
WIND		RABO-WETER (MPS)	AIR TEMP DEG C				
DID	SPEED		DRY BULB	WET BULB	VIS CODE	RYN WT	
18	05	308	07.2	07.2			971.103

21.4	0	4.29	32.400	25.88
.	12	3.84	32.440	25.82
00.1	15	2.99	32.500	25.93
.	21	2.24	32.590	26.05
.	23	2.08	32.570	26.05
.	25	1.77	32.550	26.05
.	31	0.94	32.540	26.10
.	34	0.98	32.590	26.18
.	47	0.12	32.590	26.18
.	52	0.44	32.440	26.26
.	57	1.15	32.710	26.33
.	60	1.30	32.740	26.34
.	75	1.49	32.830	26.43
.	100	1.25	32.940	26.51
.	122	1.02	33.040	26.59
.	125	1.09	33.070	26.62
.	127	1.02	33.090	26.63
.	134	0.90	33.140	26.68
.	142	0.68	33.190	26.70
.	144	0.74	33.220	26.73
.	147	0.70	33.240	26.74
.	150	0.75	33.290	26.78
.	177	0.31	33.490	26.93
.	201	0.34	33.700	27.06
.	228	0.90	33.440	27.14

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MT.	DAY	HR.			
49 01.2N	048 43.1W	05	22	08.0	1971	10908	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DID	HGT	PER	SFA		TYPE	AMT.
2039	19			0	14	0	A
WIND		RABO-WETER (MPS)	AIR TEMP DEG C				
DID	SPEED		DRY BULB	WET BULB	VIS CODE	RYN WT	
18	10	274	06.7	06.1			970.993

08.0	10	3.02	32.480	26.06
.	14	2.98	32.420	26.01
00.2	16	2.12	32.700	26.18
.	19	1.43	33.300	26.48
.	23	2.00	33.420	26.74
.	26	1.51	33.520	26.83
.	29	1.38	33.820	27.10
.	32	1.73	33.780	27.04
.	35	1.61	33.790	27.06
.	38	1.39	33.910	27.17
.	41	1.37	33.970	27.22
.	44	1.46	34.030	27.26
.	49	1.38	34.120	27.34
.	50	1.54	34.230	27.41
.	65	1.83	34.320	27.47
.	74	1.97	34.380	27.50
.	77	2.11	34.430	27.53
.	102	2.76	34.550	27.57
.	127	3.19	34.670	27.61
.	151	3.53	34.600	27.61
.	182	3.51	34.710	27.63
.	202	3.49	34.710	27.65
.	229	4.00	34.820	27.67
.	254	4.22	34.860	27.68
.	280	4.26	34.870	27.68
.	310	4.29	34.980	27.69
.	335	4.15	34.870	27.69
.	355	4.13	34.970	27.70
.	401	4.17	34.880	27.70
.	452	4.15	34.800	27.71
.	503	4.24	34.910	27.72
.	559	4.23	34.920	27.72
.	615	4.17	34.920	27.73
.	700	4.07	34.920	27.74
.	754	4.01	34.920	27.74
.	810	3.95	34.910	27.75
.	865	3.89	34.910	27.75
.	918	3.80	34.910	27.74
.	970	3.76	34.910	27.76
.	1025	3.72	34.910	27.77

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 28.0N	048 07.0W	05	21	23.5	1971	10909	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DID	HGT	PER	SFA		TYPE	AMT.
0123	14			0	14	0	A
WIND		RABO-WETER (MPS)	AIR TEMP DEG C				
DID	SPEED		DRY BULB	WET BULB	VIS CODE	RYN WT	
18	08	305	07.2	07.2			971.102

23.5	15	3.21	32.560	25.95
.	18	2.54	32.500	25.95
00.1	21	2.20	32.590	26.06
.	23	2.21	32.580	26.06
.	24	1.62	32.620	26.10
.	31	1.15	32.620	26.15
.	45	0.90	32.660	26.20
.	48	0.77	32.620	26.17
.	51	0.73	32.620	26.13
.	54	0.70	32.710	26.32
.	56	0.81	32.770	26.37
.	59	0.90	32.720	26.33
.	62	1.15	32.740	26.36
.	74	1.44	32.830	26.43
.	103	1.22	33.010	26.57
.	127	0.53	33.230	26.73
.	143	0.17	33.370	26.82
.	152	0.10	33.440	26.88

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 43.0N	048 57.0W	05	22	10.7	1971	10910	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DID	HGT	PER	SFA		TYPE	AMT.
1820	19			0	14	0	A
WIND		RABO-WETER (MPS)	AIR TEMP DEG C				
DID	SPEED		DRY BULB	WET BULB	VIS CODE	RYN WT	
17	12	264	06.7	06.7			970.924

10.7	10	3.49	32.660	26.11
.	13	3.18	32.550	25.95
00.1	17	2.44	32.650	26.17
.	23	2.32	32.690	26.13
.	25	1.48	32.690	26.14
.	28	1.41	32.940	26.30
.	31	1.44	33.420	26.77
.	34	1.49	33.440	26.79
.	41	1.49	33.660	26.90
.	44	1.34	33.580	26.91
.	47	0.77	33.690	27.03
.	53	0.74	33.790	27.13
.	59	0.85	33.890	27.19
.	75	1.19	34.160	27.30
.	103	1.47	34.310	27.49
.	104	1.70	34.340	27.50
.	111	1.44	34.420	27.54
.	124	2.34	34.510	27.57
.	151	3.15	34.610	27.61
.	178	3.49	34.710	27.65
.	200	3.42	34.720	27.66
.	227	3.29	34.810	27.68
.	258	3.20	34.810	27.67
.	274	3.10	34.840	27.67
.	301	3.18	34.840	27.68
.	330	3.11	34.860	27.69
.	355	3.13	34.850	27.68
.	401	3.17	34.860	27.70
.	463	3.14	34.880	27.71
.	500	3.28	34.910	27.71
.	550	3.21	34.910	27.72
.	613	3.25	34.920	27.72
.	701	3.14	34.920	27.73
.	808	3.14	34.920	27.74
.	905	3.14	34.910	27.74
.	945	3.14	34.910	27.75
.	1000	3.14	34.910	27.76

TABLE II. O level near bridge for four stations located in the EMBRETTON area May 1961 and May 1962. Data from NOAA station No. 9445411 collected.

Date		Description		Amount	
Month	Day	Particulars	Debit	Credit	Balance
Jan	1	Balance forward			100.00
Jan	2	By Cash	50.00		150.00
Jan	3	To Cash		25.00	125.00
Jan	4	By Cash	75.00		200.00
Jan	5	To Cash		100.00	100.00
Jan	6	By Cash	125.00		225.00
Jan	7	To Cash		50.00	175.00
Jan	8	By Cash	100.00		275.00
Jan	9	To Cash		75.00	200.00
Jan	10	By Cash	150.00		350.00
Jan	11	To Cash		125.00	225.00
Jan	12	By Cash	175.00		400.00
Jan	13	To Cash		100.00	300.00
Jan	14	By Cash	200.00		500.00
Jan	15	To Cash		150.00	350.00
Jan	16	By Cash	225.00		575.00
Jan	17	To Cash		175.00	400.00
Jan	18	By Cash	250.00		650.00
Jan	19	To Cash		200.00	450.00
Jan	20	By Cash	275.00		725.00
Jan	21	To Cash		225.00	500.00
Jan	22	By Cash	300.00		800.00
Jan	23	To Cash		250.00	550.00
Jan	24	By Cash	325.00		875.00
Jan	25	To Cash		275.00	600.00
Jan	26	By Cash	350.00		950.00
Jan	27	To Cash		300.00	650.00
Jan	28	By Cash	375.00		1025.00
Jan	29	To Cash		325.00	700.00
Jan	30	By Cash	400.00		1100.00
Jan	31	To Cash		350.00	750.00
Feb	1	Balance forward			750.00
Feb	2	By Cash	425.00		1175.00
Feb	3	To Cash		375.00	800.00
Feb	4	By Cash	450.00		1250.00
Feb	5	To Cash		400.00	850.00
Feb	6	By Cash	475.00		1325.00
Feb	7	To Cash		425.00	900.00
Feb	8	By Cash	500.00		1400.00
Feb	9	To Cash		450.00	950.00
Feb	10	By Cash	525.00		1475.00
Feb	11	To Cash		475.00	1000.00
Feb	12	By Cash	550.00		1550.00
Feb	13	To Cash		500.00	1050.00
Feb	14	By Cash	575.00		1625.00
Feb	15	To Cash		525.00	1100.00
Feb	16	By Cash	600.00		1700.00
Feb	17	To Cash		550.00	1150.00
Feb	18	By Cash	625.00		1775.00
Feb	19	To Cash		575.00	1200.00
Feb	20	By Cash	650.00		1850.00
Feb	21	To Cash		600.00	1250.00
Feb	22	By Cash	675.00		1925.00
Feb	23	To Cash		625.00	1300.00
Feb	24	By Cash	700.00		2000.00
Feb	25	To Cash		650.00	1350.00
Feb	26	By Cash	725.00		2075.00
Feb	27	To Cash		675.00	1400.00
Feb	28	By Cash	750.00		2150.00
Feb	29	To Cash		700.00	1450.00
Feb	30	By Cash	775.00		2225.00
Feb	31	To Cash		725.00	1500.00
Mar	1	Balance forward			1500.00
Mar	2	By Cash	800.00		2300.00
Mar	3	To Cash		750.00	1550.00
Mar	4	By Cash	825.00		2375.00
Mar	5	To Cash		775.00	1600.00
Mar	6	By Cash	850.00		2450.00
Mar	7	To Cash			

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
48 06.0N	049 29.0W	05	22	17.0	1971	10914	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0210	15	0	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
16	13	251	06.7	06.7		971.073	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
17.0		9	3.25	32.440	25.85
.		12	3.26	32.440	25.85
00.1		14	3.18	32.390	25.81
.		17	2.60	32.240	25.75
.		20	2.04	32.350	25.87
.		23	1.73	32.540	26.05
.		25	1.48	32.530	26.06
.		28	1.40	32.640	26.15
.		31	1.36	32.620	26.14
.		36	1.03	32.550	26.10
.		39	0.68	32.590	26.16
.		44	0.28	32.660	26.23
.		47	0.15	32.670	26.24
.		52	0.39	32.660	26.26
.		55	0.67	32.730	26.33
.		77	1.55	32.940	26.52
.		101	1.04	33.290	26.80
.		115	0.55	33.430	26.89
.		121	0.56	33.430	26.89
.		126	0.42	33.470	26.92
.		129	0.32	33.540	26.97
.		132	0.13	33.530	26.95
.		137	0.02	33.560	26.97
.		140	0.14	33.580	26.98
.		151	0.31	33.600	26.99
.		169	0.40	33.720	27.08
.		172	0.55	33.740	27.08
.		177	0.62	33.740	27.08

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 41.0N	049 51.0W	05	22	20.4	1971	10916	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0093	18	1	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
16	14	227	06.1	06.1		971.102	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
20.4		11	4.33	32.470	25.77
.		14	4.32	32.460	25.77
00.1		17	4.23	32.420	25.74
.		20	3.68	32.300	25.70
.		22	2.94	32.370	25.82
.		25	2.31	32.440	25.92
.		33	1.20	32.550	26.09
.		35	0.96	32.590	26.14
.		41	0.74	32.630	26.18
.		49	0.72	32.660	26.21
.		52	0.62	32.620	26.18
.		58	0.04	32.600	26.20
.		61	0.49	32.680	26.28
.		67	0.79	32.750	26.35
.		76	0.95	32.720	26.33
.		79	1.14	32.750	26.36
.		82	1.16	32.830	26.43
.		85	1.06	32.980	26.54
.		88	0.74	32.940	26.50

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 58.0N	049 36.0W	05	22	18.0	1971	10915	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0185	15	1	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
16	12	244	06.7	06.1		971.099	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
18.0		9	3.07	32.450	25.88
.		12	3.06	32.440	25.87
00.1		17	3.00	32.390	25.83
.		20	2.37	32.140	25.68
.		22	1.80	32.340	25.88
.		25	1.55	32.390	25.94
.		28	1.44	32.420	25.97
.		31	1.22	32.400	25.97
.		36	0.94	32.470	26.04
.		39	0.56	32.450	26.05
.		42	0.03	32.280	25.94
.		44	0.74	32.550	26.18
.		49	0.85	32.650	26.27
.		52	1.13	32.640	26.27
.		55	1.43	32.650	26.29
.		66	1.64	32.770	26.39
.		75	1.58	32.820	26.43
.		103	1.21	33.070	26.59
.		120	1.15	33.170	26.70
.		125	0.87	33.220	26.73
.		131	0.87	33.220	26.73
.		134	0.96	33.260	26.76
.		138	0.93	33.330	26.82
.		141	0.81	33.420	26.89
.		144	0.45	33.450	26.90
.		150	0.10	33.490	26.91
.		152	0.06	33.490	26.92
.		175	0.28	33.640	27.02

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 21.0N	050 05.0W	05	22	22.9	1971	10917	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0073	18	0	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
15	14	217	07.2	07.2		971.109	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
22.9		7	4.57	32.450	25.73
.		10	4.56	32.450	25.73
00.1		13	4.56	32.440	25.72
.		15	4.32	32.330	25.66
.		18	3.18	32.160	25.63
.		21	2.64	32.460	25.92
.		31	2.28	32.520	25.99
.		44	1.80	32.530	26.04
.		50	1.45	32.460	26.00
.		53	0.58	32.360	25.98
.		56	0.02	32.590	26.19
.		59	0.24	32.700	26.29
.		67	0.42	32.770	26.35

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 04.0N	048 39.0W	05	23	04.7	1971	10918	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0104							
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
			.	.			971.130
04.7		9	5.63	32.490	25.64		
.		12	5.62	32.480	25.64		
00.1		15	5.26	32.120	25.39		
.		17	3.49	32.050	25.51		
.		20	2.94	32.500	25.03		
.		26	2.81	32.520	25.95		
.		32	2.36	32.500	25.07		
.		38	1.87	32.520	26.03		
.		44	1.73	32.540	26.05		
.		52	1.39	32.580	26.10		
.		58	1.07	32.530	26.09		
.		65	0.34	32.650	26.22		
.		67	0.07	32.630	26.22		
.		71	0.10	32.760	26.33		
.		75	0.22	32.740	26.32		
.		102	0.74	32.950	26.51		
.		104	0.78	32.970	26.53		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 06.0N	048 15.0W	05	23	06.7	1971	10920	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0134	15	2	2		X5	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
15	24	217	09.4	09.4			971.121
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
06.7		10	4.51	32.620	25.97		
.		16	4.44	32.500	25.78		
00.1		19	3.30	32.330	25.76		
.		22	2.79	32.570	25.99		
.		24	2.46	32.490	25.95		
.		27	2.11	32.620	26.08		
.		30	1.87	32.600	26.09		
.		33	1.62	32.600	26.10		
.		52	1.20	32.690	26.21		
.		58	1.05	32.660	26.19		
.		63	0.47	32.640	26.20		
.		65	0.04	32.670	26.25		
.		76	0.81	32.800	26.39		
.		88	1.15	32.930	26.51		
.		91	1.13	33.020	26.58		
.		96	0.91	33.090	26.63		
.		99	0.93	33.050	26.60		
.		103	0.84	33.170	26.69		
.		120	0.60	33.240	26.74		
.		123	0.41	33.390	26.86		
.		126	0.25	33.320	26.79		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 05.0N	048 25.0W	05	23	05.7	1971	10919	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0117	16	2	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULR	WET RULR	VIS CODE	DYN HT	
16	20	213	09.4	09.4			971.126
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
05.7		15	4.51	32.580	25.84		
.		18	4.43	32.520	25.80		
00.1		21	3.93	32.350	25.71		
.		24	3.21	32.410	25.83		
.		26	2.82	32.510	25.94		
.		32	2.13	32.520	26.00		
.		35	1.89	32.550	26.05		
.		40	1.71	32.570	26.08		
.		49	1.16	32.570	26.11		
.		52	1.08	32.620	26.16		
.		54	1.06	32.620	26.16		
.		57	0.87	32.540	26.11		
.		63	0.16	32.650	26.23		
.		64	0.30	32.620	26.22		
.		68	0.63	32.760	26.35		
.		76	0.67	32.800	26.38		
.		86	0.93	32.850	26.44		
.		90	0.97	32.900	26.48		
.		104	0.90	33.100	26.64		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 07.0N	048 02.0W	05	23	07.8	1971	10921	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0155	15	1	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
15	10	227	08.9	08.9		971.119	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
07.8		13	4.22	32.640	25.92		
.		15	4.21	32.650	25.92		
00.1		18	4.10	32.500	25.82		
.		21	3.34	32.250	25.69		
.		24	2.28	32.480	25.96		
.		26	1.81	32.530	26.04		
.		29	1.60	32.600	26.11		
.		31	1.51	32.650	26.15		
.		35	1.43	32.630	26.14		
.		37	1.20	32.610	26.14		
.		49	0.87	32.660	26.20		
.		52	0.67	32.590	26.16		
.		54	0.24	32.560	26.15		
.		63	0.61	32.720	26.32		
.		68	0.81	32.770	26.37		
.		70	0.77	32.820	26.40		
.		74	0.84	32.740	26.34		
.		77	1.15	32.720	26.34		
.		79	1.33	32.820	26.42		
.		82	1.37	32.890	26.48		
.		101	1.17	33.060	26.61		
.		117	0.44	33.210	26.70		
.		125	0.41	33.270	26.76		
.		151	0.05	33.410	26.84		

TABLE 11. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 03.0N	047 42.0W	05	23	09.1	1971	10922	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0185	19	2	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	12	227	08.9	08.9			971.120

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
09.1		10	4.34	32.620	25.89
.		16	4.34	32.540	25.82
00.1		19	3.52	32.240	25.67
.		22	2.37	32.470	25.95
.		24	1.93	32.430	25.95
.		27	1.53	32.570	26.08
.		30	1.17	32.490	26.04
.		33	0.87	32.560	26.12
.		52	0.49	32.630	26.20
.		55	0.33	32.610	26.19
.		58	0.02	32.540	26.15
.		61	0.51	32.650	26.26
.		64	0.86	32.690	26.30
.		66	1.03	32.720	26.34
.		76	1.24	32.770	26.38
.		84	1.41	32.880	26.48
.		101	1.10	33.040	26.60
.		127	0.19	33.280	26.76
.		153	0.07	33.360	26.81
.		163	0.01	33.480	26.92
.		177	0.45	33.600	26.98

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 03.0N	047 21.0W	05	23	10.6	1971	10923	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0280	15			1	X4	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULE	WET RULE	VIS CODE	DYN HT	
16	08	224	08.9	08.9		971.100	

10.6	17	3.67	32.540	25.89
.	20	3.17	32.280	25.73
00.3	23	1.77	32.270	25.83
.	25	1.12	32.490	26.05
.	31	0.73	32.560	26.13
.	33	0.60	32.590	26.16
.	39	0.52	32.640	26.20
.	42	0.34	32.590	26.17
.	45	0.02	32.530	26.14
.	47	0.45	32.610	26.22
.	50	0.79	32.630	26.25
.	53	1.06	32.680	26.30
.	56	1.21	32.750	26.36
.	69	1.42	32.840	26.44
.	75	1.35	32.930	26.51
.	92	1.20	33.070	26.62
.	101	0.98	33.120	26.66
.	104	0.84	33.200	26.71
.	127	0.30	33.290	26.77
.	130	0.35	33.320	26.79
.	136	0.30	33.390	26.85
.	139	0.05	33.470	26.90
.	142	0.11	33.320	26.78
.	147	0.14	33.460	26.89
.	151	0.06	33.490	26.91
.	175	0.06	33.640	27.03
.	190	0.51	33.770	27.11
.	203	0.66	33.850	27.17
.	212	0.83	33.950	27.24
.	216	1.00	33.940	27.22
.	225	1.14	34.000	27.26
.	253	1.38	34.030	27.27

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER	
				MO.	DAY	HR.			
47 02.0N		047 08.0W		05	23	11.9	1971	10924	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			
	DIR	HGT	PER	SFA		TYPE	AMT.		
1001	15	2	2		X4	0	6		
WIND		BARO-METER (MRS)		AIR TEMP DEG C					
DIR	SPEED			DRY RULR	WET RULR	VIS CODE	DYN HT		
15	12	234		08.3	08.3			971.038	
MESSENGER TIME	CAST NO.	DEPTH		TEMP	SAL	SIG-T			
11.9		12		4.08	32.560	25.87			
.		15		3.98	32.530	25.86			
00.2		18		3.49	32.340	25.75			
.		21		2.64	32.290	25.78			
.		23		1.76	32.380	25.92			
.		26		1.30	32.490	26.04			
.		29		1.11	32.570	26.12			
.		31		1.01	32.590	26.13			
.		37		0.55	32.570	26.15			
.		48		0.07	32.650	26.23			
.		50		0.26	32.560	26.17			
.		53		0.88	32.700	26.32			
.		56		0.96	32.840	26.43			
.		74		1.38	33.020	26.59			
.		77		1.22	33.220	26.75			
.		90		0.65	33.370	26.85			
.		93		0.29	33.430	26.88			
.		96		0.19	33.380	26.83			
.		101		0.16	33.400	26.85			
.		126		0.22	33.580	26.98			
.		130		0.05	33.590	26.99			
.		138		0.10	33.730	27.10			
.		140		0.26	33.730	27.09			
.		143		0.34	33.760	27.12			
.		146		0.54	33.840	27.17			
.		152		0.62	33.780	27.12			
.		157		0.27	33.790	27.14			
.		160		0.27	33.840	27.18			
.		163		0.45	33.990	27.30			
.		165		0.78	33.980	27.27			
.		171		0.86	33.940	27.23			
.		175		0.94	34.070	27.33			
.		177		1.12	34.030	27.28			
.		204		1.79	34.190	27.37			
.		216		1.71	34.260	27.43			
.		227		1.99	34.310	27.45			
.		230		2.00	34.330	27.46			
.		245		2.85	34.490	27.52			
.		251		2.75	34.480	27.52			
.		276		3.33	34.620	27.58			
.		284		3.62	34.700	27.61			
.		303		3.99	34.760	27.63			
.		327		4.09	34.780	27.62			
.		352		4.17	34.800	27.63			
.		379		4.31	34.840	27.65			
.		405		4.35	34.860	27.66			
.		450		4.44	34.890	27.68			
.		501		4.47	34.910	27.69			
.		556		4.44	34.920	27.70			
.		607		4.43	34.920	27.70			
.		652		4.38	34.920	27.71			
.		716		4.26	34.920	27.72			
.		757		4.20	34.920	27.73			
.		820		4.12	34.920	27.73			
.		863		4.10	34.920	27.74			
.		903		4.08	34.920	27.74			

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER	
				MO.	DAY	HR.			
47 01.0N		046 48.0W		05	23	11.7	1971	10925	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			
	DIR	HGT	PER	SFA		TYPE	AMT.		
1189	15	2	2		14	0	6		
WIND		RAAO-METER (MRS)		AIR TEMP DEG C					
DIR	SPEED			DRY RULA	WET RULA	VIS CODE	NYN MT		
15	12		240	08.9	08.9			970.988	
MESSENGER TIME		CAST NO.	DEPTH	TEMP	SAL	SIG-T			
11.7									
.			10	4.24	32.550	25.85			
00.1			16	4.21	32.530	25.83			
.			18	3.89	32.320	25.70			
.			21	2.82	32.260	25.74			
.			24	2.21	32.500	25.98			
.			32	0.98	32.520	26.08			
.			36	0.57	32.520	26.11			
.			39	0.33	32.730	26.29			
.			41	0.06	32.640	26.23			
.			44	0.17	32.860	26.41			
.			47	0.64	32.970	26.52			
.			50	0.96	33.120	26.65			
.			52	1.03	33.220	26.74			
.			55	1.04	33.270	26.78			
.			60	0.91	33.380	26.86			
.			76	0.58	33.570	27.00			
.			79	0.44	33.660	27.07			
.			84	0.41	33.600	27.02			
.			87	0.51	33.630	27.05			
.			89	0.48	33.690	27.10			
.			101	0.45	33.900	27.22			
.			104	0.71	33.890	27.19			
.			116	0.65	33.880	27.19			
.			127	0.91	34.000	27.28			
.			138	1.14	34.020	27.27			
.			143	1.06	34.050	27.31			
.			146	0.86	33.970	27.25			
.			150	0.78	34.100	27.36			
.			153	0.90	34.110	27.36			
.			157	0.93	34.160	27.40			
.			175	2.10	34.390	27.50			
.			179	2.30	34.370	27.47			
.			190	2.08	34.370	27.49			
.			196	2.10	34.380	27.49			
.			198	2.29	34.540	27.60			
.			201	2.73	34.530	27.56			
.			205	2.76	34.580	27.60			
.			208	2.91	34.520	27.54			
.			211	3.09	34.690	27.65			
.			213	3.81	34.720	27.61			
.			217	3.87	34.630	27.53			
.			220	3.81	34.680	27.58			
.			222	4.25	34.870	27.68			
.			226	4.59	34.810	27.59			
.			229	4.61	34.800	27.58			
.			232	4.68	34.850	27.62			
.			238	4.57	34.800	27.59			
.			251	4.67	34.820	27.60			
.			255	4.63	34.780	27.57			
.			258	4.47	34.790	27.59			
.			261	4.42	34.790	27.60			
.			267	4.53	34.820	27.61			
.			276	4.52	34.840	27.62			
.			285	4.67	34.900	27.66			
.			288	4.69	34.820	27.59			
.			291	4.54	34.830	27.62			
.			297	4.44	34.860	27.65			
.			301	4.51	34.850	27.64			
.			307	4.57	34.910	27.68			
.			310	4.71	34.910	27.66			
.			312	4.75	34.890	27.65			
.			314	4.53	34.840	27.63			
.			328	4.53	34.860	27.65			
.			355	4.74	34.900	27.65			
.			377	4.69	34.920	27.67			
.			404	4.67	34.930	27.68			
.			453	4.62	34.940	27.70			
.			502	4.52	34.940	27.71			
.			552	4.49	34.940	27.71			
.			609	4.36	34.930	27.72			
.			654	4.30	34.910	27.72			
.			711	4.23	34.930	27.73			
.			754	4.16	34.910	27.73			
.			820	4.11	34.920	27.74			
.			866	4.05	34.910	27.74			
.			911	4.02	34.910	27.74			
.			957	3.99	34.910	27.74			
.			1002	3.96	34.910	27.75			

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 01.0N	046 33.0W	05	23	15.3	1971	10926	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0415	15	2	2		63	0	6
WIND		RAAO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN MT	
15	12	240	08.3	08.3			970.961
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
15.3		12	5.67	32.830	25.91		
.		15	5.31	32.660	25.81		
.		18	3.38	32.000	25.49		
.		21	1.41	32.360	25.93		
.		27	1.26	32.780	26.27		
.		26	1.18	32.790	26.29		
.		29	1.61	33.240	26.61		
.		31	2.03	32.910	26.32		
.		34	1.90	32.960	26.37		
.		37	1.77	32.830	26.28		
.		39	1.28	32.720	26.23		
.		42	1.05	33.030	26.49		
.		46	1.42	33.100	26.51		
.		51	1.10	33.200	26.62		
.		54	0.66	33.250	26.69		
.		57	0.47	33.390	26.81		
.		63	0.51	33.550	26.94		
.		65	0.42	33.630	27.00		
.		71	0.40	33.750	27.10		
.		76	0.55	33.800	27.13		
.		78	0.57	33.810	27.14		
.		82	0.67	33.890	27.20		
.		84	0.90	33.920	27.21		
.		89	1.10	33.950	27.22		
.		100	1.14	34.060	27.31		
.		103	1.29	34.050	27.29		
.		108	1.34	34.160	27.38		
.		117	2.02	34.260	27.41		
.		120	2.13	34.270	27.40		
.		125	2.13	34.300	27.42		
.		150	2.93	34.490	27.51		
.		153	2.95	34.480	27.50		
.		156	3.30	34.670	27.62		
.		166	4.10	34.750	27.60		
.		168	4.23	34.690	27.54		
.		174	4.17	34.660	27.53		
.		177	4.03	34.690	27.56		
.		180	4.14	34.790	27.63		
.		186	4.65	34.850	27.62		
.		199	4.66	34.840	27.61		
.		202	4.84	34.880	27.62		
.		226	4.87	34.860	27.61		
.		251	4.81	34.900	27.64		
.		279	4.90	34.930	27.66		
.		303	4.69	34.920	27.67		

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME			YEAR	STATION NUMBER
				(GMT)				
				MO.	DAY	HR.		
47 03.0N		046 11.0W		05	23	17.1	1971	10927
DEPTH TO BOTTOM		WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
		DIR	HGT	PER	SEA		TYPE	AMT.
0338		15	2	3		X4	0	6
WIND		BARO-METER		AIR TEMP				
				DEG C				
DIR	SPEED	(MBS)		DRY BULB	WET BULB	VIS CODE	DYN HT	
15	16	234		11.1	11.1		970.958	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
17.1		19	7.25	32.190	25.65
.		21	2.23	32.570	26.04
00.1		23	1.91	32.960	26.38
.		26	2.50	33.460	26.72
.		29	2.69	32.960	26.71
.		31	2.26	32.990	26.37
.		34	2.11	33.050	26.43
.		37	2.04	33.070	26.45
.		42	1.76	33.130	26.52
.		45	2.35	33.550	26.81
.		48	2.58	33.330	26.61
.		51	2.30	33.320	26.63
.		53	1.98	33.460	26.76
.		56	1.88	33.440	26.76
.		59	1.99	33.890	27.11
.		62	2.34	33.800	27.01
.		70	2.74	33.850	27.02
.		73	2.69	33.700	26.90
.		76	2.06	33.730	26.98
.		79	1.93	33.800	27.04
.		82	1.98	33.930	27.14
.		88	2.45	34.090	27.23
.		94	2.47	34.040	27.19
.		96	2.71	34.170	27.27
.		99	2.83	34.100	27.21
.		102	2.86	34.140	27.24
.		110	2.91	34.160	27.25
.		126	3.30	34.350	27.36
.		143	3.79	34.540	27.46
.		149	4.10	34.590	27.47
.		152	4.13	34.640	27.51
.		155	4.26	34.670	27.52
.		177	4.67	34.760	27.55
.		189	4.95	34.850	27.59
.		197	4.69	34.780	27.56
.		200	4.68	34.810	27.58
.		226	4.57	34.820	27.61
.		252	4.46	34.850	27.64
.		278	4.38	34.860	27.66
.		302	4.36	34.880	27.68
.		326	4.36	34.890	27.68

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER
				MO.	DAY	HR.		
47 05.0N		045 31.0W		05	23	19.3	1971	10928
DEPTH TO BOTTOM		WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
							TYPE	AMT.
0289		17	2	3		X6	0	6
WIND		BARO-METER (MBS)		AIR TEMP DEG C				
				DRY BULB	WET BULB			
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT	
15	18	240		11.1	11.1		970.997	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
19.3		10	6.08	32.930	25.94
.		12	5.75	32.720	25.49
00.1		15	2.51	31.680	25.30
.		18	2.39	33.350	26.64
.		20	3.02	33.270	26.53
.		23	3.54	33.400	26.59
.		26	3.47	33.110	26.36
.		28	2.80	33.120	26.43
.		31	3.11	33.400	26.62
.		33	2.90	32.980	26.31
.		36	2.21	33.230	26.56
.		39	2.01	33.030	26.42
.		42	0.63	33.100	26.57
.		45	1.11	33.790	27.09
.		48	1.58	33.690	26.98
.		50	1.80	33.820	27.07
.		53	2.27	33.970	27.15
.		56	2.58	33.940	27.10
.		58	2.67	33.900	27.06
.		64	2.62	33.880	27.05
.		72	2.18	33.900	27.10
.		75	2.39	34.060	27.22
.		78	2.55	34.030	27.17
.		81	2.54	34.070	27.21
.		83	2.71	34.090	27.21
.		89	2.65	34.090	27.22
.		92	2.74	34.140	27.25
.		97	3.26	34.430	27.43
.		100	3.73	34.430	27.39
.		102	4.12	34.460	27.37
.		105	4.22	34.380	27.30
.		109	4.37	34.560	27.42
.		111	4.77	34.550	27.37
.		114	4.82	34.480	27.31
.		117	4.98	34.570	27.38
.		119	5.05	34.530	27.32
.		122	5.01	34.450	27.26
.		125	4.72	34.410	27.27
.		128	4.58	34.440	27.30
.		140	4.31	34.440	27.33
.		142	4.29	34.480	27.36
.		145	4.46	34.570	27.42
.		148	4.59	34.510	27.36
.		151	4.42	34.410	27.30
.		153	4.24	34.530	27.41
.		157	4.53	34.580	27.42
.		168	4.67	34.610	27.43
.		174	4.87	34.660	27.44
.		176	4.84	34.610	27.41
.		179	4.77	34.590	27.40
.		186	4.40	34.580	27.44
.		189	4.62	34.810	27.59
.		192	5.14	34.900	27.60
.		196	5.05	34.660	27.42
.		199	4.96	34.750	27.50
.		203	5.09	34.790	27.52
.		207	4.97	34.820	27.56
.		213	4.87	34.710	27.48
.		217	4.85	34.760	27.51
.		222	4.67	34.780	27.56
.		251	4.32	34.810	27.62

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR		STATION NUMBER	
				MO.	DAY	HR.				
45 51.04		046 00.04		05	24	03.3	1971		10929	
DEPTH TO BOTTOM	WAVE OBSERVATIONS					WEATHER CODE	CLOUD CODES			
	DIR	HGT	PER	SEA	TYPE		AMT.			
1347										
WIND			RADAR-METER (MKS)	AIR TEMP DEG C						
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN MT			
				.	.			971.071		
MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T					
03.3		10	9.39	33.140	25.64					
.		21	9.28	33.160	25.66					
00.4		23	9.05	33.040	25.60					
.		27	7.48	33.110	25.89					
.		30	6.75	33.190	26.06					
.		32	6.22	33.090	26.04					
.		35	5.76	33.240	26.22					
.		38	5.88	33.310	26.26					
.		40	5.80	33.310	26.27					
.		43	5.64	33.300	26.28					
.		47	5.19	33.290	26.33					
.		49	4.60	33.280	26.38					
.		52	4.16	33.320	26.46					
.		55	3.94	33.360	26.51					
.		54	3.90	33.490	26.62					
.		63	3.86	33.590	26.70					
.		67	4.56	33.980	26.94					
.		70	5.25	33.890	26.79					
.		72	5.10	33.840	26.77					
.		74	5.25	33.970	26.86					
.		78	5.46	34.030	26.88					
.		99	6.61	34.380	27.01					
.		102	6.54	34.350	26.99					
.		105	6.49	34.380	27.02					
.		104	6.67	34.490	27.09					
.		111	6.97	34.560	27.10					
.		123	7.04	34.620	27.14					
.		125	7.31	34.650	27.13					
.		124	7.35	34.620	27.10					
.		135	7.06	34.640	27.15					
.		137	7.11	34.640	27.14					
.		140	7.07	34.640	27.15					
.		144	7.14	34.660	27.15					
.		147	7.12	34.830	27.13					
.		150	6.81	34.530	27.10					
.		153	6.63	34.620	27.19					
.		154	6.68	34.600	27.18					
.		158	6.62	34.540	27.13					
.		161	6.34	34.510	27.14					
.		164	6.16	34.530	27.18					
.		177	5.73	34.540	27.25					
.		183	5.86	34.540	27.23					
.		186	5.77	34.550	27.25					
.		191	5.67	34.580	27.26					
.		202	5.85	34.580	27.26					
.		220	5.70	34.660	27.34					
.		223	5.81	34.630	27.31					
.		224	5.64	34.560	27.27					
.		228	5.45	34.610	27.34					
.		232	5.61	34.720	27.40					
.		234	5.87	34.730	27.38					
.		252	5.74	34.680	27.36					
.		259	5.43	34.660	27.38					
.		262	5.46	34.710	27.41					
.		269	5.13	34.650	27.40					
.		272	5.06	34.670	27.43					
.		276	4.88	34.590	27.39					
.		282	4.27	34.560	27.43					
.		288	4.19	34.590	27.46					
.		292	4.32	34.700	27.54					
.		295	4.54	34.710	27.52					
.		302	4.73	34.700	27.49					
.		317	4.98	34.710	27.47					
.		322	4.45	34.660	27.49					
.		326	4.42	34.720	27.54					
.		354	4.74	34.810	27.58					
.		179	5.09	34.880	27.59					
.		401	5.20	34.930	27.62					
.		458	5.15	34.960	27.65					
.		501	5.12	34.980	27.67					
.		555	4.93	34.980	27.69					
.		608	4.88	34.990	27.71					
.		652	4.61	34.970	27.72					
.		706	4.54	34.970	27.73					
.		754	4.37	34.950	27.73					
.		801	4.23	34.920	27.73					
.		855	4.16	34.930	27.74					

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 55.0N	046 20.0W	05	24	05.3	1971	10930	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SFA		TYPE	AMT.
1114							
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BUL	WET BUL	VIS CODE	OYN HT	
			.	.			971.135
05.1		11	10.13	12.900	25.32		
.		17	10.13	12.900	25.32		
00.2		20	8.84	12.680	25.35		
.		24	7.01	12.960	25.83		
.		27	6.37	13.050	25.99		
.		29	5.89	13.080	26.08		
.		32	5.55	13.140	26.16		
.		34	5.31	13.120	26.17		
.		37	4.94	13.170	26.26		
.		40	4.69	13.150	26.27		
.		51	3.00	13.230	26.50		
.		53	2.13	13.280	26.61		
.		54	1.13	13.200	26.62		
.		59	0.78	13.380	26.78		
.		63	0.84	13.420	26.82		
.		65	1.33	13.860	27.12		
.		68	3.36	14.020	27.10		
.		71	4.24	14.110	27.08		
.		75	5.40	14.290	27.09		
.		77	6.15	14.350	27.05		
.		80	6.52	14.260	26.92		
.		83	6.19	14.110	26.85		
.		86	5.81	14.260	27.02		
.		88	6.87	14.640	27.18		
.		91	7.37	14.500	26.99		
.		97	7.49	14.560	27.03		
.		100	7.66	14.650	27.07		
.		103	7.79	14.610	27.02		
.		106	7.71	14.630	27.05		
.		112	7.77	14.650	27.06		
.		126	7.43	14.650	27.11		
.		134	7.39	14.640	27.11		
.		139	7.03	14.590	27.12		
.		145	6.83	14.600	27.15		
.		147	6.83	14.670	27.21		
.		150	7.09	14.750	27.23		
.		153	7.25	14.690	27.16		
.		155	7.13	14.680	27.17		
.		164	7.00	14.770	27.26		
.		167	7.30	14.790	27.24		
.		169	7.34	14.770	27.21		
.		175	7.04	14.720	27.22		
.		187	6.57	14.630	27.21		
.		193	6.07	14.590	27.25		
.		202	5.90	14.630	27.30		
.		204	5.83	14.560	27.26		
.		207	5.51	14.550	27.28		
.		214	5.19	14.570	27.34		
.		217	5.21	14.580	27.34		
.		226	4.79	14.540	27.36		
.		249	4.68	14.570	27.19		
.		252	4.53	14.560	27.40		
.		255	4.51	14.590	27.43		
.		264	4.68	14.640	27.45		
.		261	5.15	14.770	27.50		
.		264	5.28	14.690	27.42		
.		267	5.20	14.720	27.46		
.		277	5.38	14.760	27.47		
.		283	5.40	14.760	27.46		
.		286	5.20	14.690	27.43		
.		300	5.37	14.820	27.52		
.		326	5.02	14.810	27.55		
.		331	5.08	14.810	27.54		
.		352	5.11	14.870	27.59		
.		377	5.17	14.950	27.62		
.		403	5.36	14.960	27.63		
.		452	5.03	14.950	27.65		
.		502	4.93	14.980	27.69		
.		551	4.78	14.980	27.71		
.		605	4.60	14.960	27.72		
.		655	4.41	14.960	27.73		
.		705	4.27	14.940	27.74		
.		750	4.21	14.920	27.73		
.		805	4.21	14.950	27.75		
.		855	4.05	14.930	27.75		
.		905	4.05	14.930	27.75		
.		955	3.72	14.920	27.75		
.		1005	3.86	14.920	27.76		

LATITUDE		LONGITUDE		STATION TIME			YEAR	STATION NUMBER	
				(GMT)					
				MO.	DAY	HR.			
46 01.0N		046 35.0W		05	24	10.2	1971	10931	
DEPTH TO BOTTOM	WAVE OBSERVATIONS					WEATHER CODE	CLOUD CODES		
	DIP	HGT	PER	SFA	TYPE		AMT.		
0595									
WIND		BARO-METER (MRS)		AIR TEMP DEG C					
DIR	SPEED			DRY BUL	WET BUL	VIS CODE	OWN HT		
				.	.			971.127	
10.2				9	9.61	12.870	25.38		
.				19	9.54	12.870	25.39		
00.2				23	8.24	12.680	25.29		
.				26	7.22	13.120	25.93		
.				29	6.97	13.190	26.02		
.				32	7.12	13.330	26.11		
.				36	7.06	13.430	26.20		
.				40	6.55	13.290	26.16		
.				44	5.75	13.400	26.34		
.				47	5.36	13.310	26.32		
.				51	4.83	13.350	26.41		
.				54	4.25	13.230	26.38		
.				59	3.95	13.510	26.63		
.				63	4.03	13.530	26.64		
.				66	4.58	14.260	27.16		
.				69	6.72	14.790	27.32		
.				72	7.55	14.600	27.05		
.				75	7.96	14.640	27.02		
.				77	8.23	14.630	26.97		
.				80	8.40	14.670	26.98		
.				83	8.83	14.800	27.01		
.				86	8.93	14.740	26.95		
.				89	8.90	14.740	26.95		
.				98	8.58	14.700	26.97		
.				101	8.52	14.710	26.99		
.				120	8.01	14.720	27.07		
.				128	8.23	14.820	27.12		
.				147	8.36	14.850	27.12		
.				149	8.12	14.740	27.07		
.				153	7.63	14.680	27.10		
.				159	7.07	14.620	27.13		
.				161	6.80	14.630	27.18		
.				165	6.83	14.750	27.27		
.				188	7.08	14.790	27.26		
.				179	6.87	14.730	27.25		
.				200	6.75	14.770	27.30		
.				203	6.72	14.780	27.30		
.				226	6.05	14.710	27.34		
.				241	5.71	14.690	27.37		
.				268	5.70	14.770	27.43		
.				250	5.82	14.800	27.44		
.				270	6.04	14.890	27.68		
.				303	6.93	14.880	27.69		
.				325	5.60	14.870	27.62		
.				356	5.36	14.900	27.68		
.				378	5.34	14.910	27.69		
.				408	5.11	14.910	27.62		
.				459	4.78	14.910	27.66		
.				509	4.73	14.950	27.69		
.				557	4.58	14.950	27.71		

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
46 05.0N	046 48.0W	05	24	11.9	1971	10932
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
127A	14	0	3		04	0 6
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
14	08	244	11.7	11.7		971.060
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T	
11.9		9	10.17	32.860	25.28	
.		18	10.10	32.810	25.25	
00.2		21	9.78	32.460	25.19	
.		24	7.17	32.940	25.80	
.		29	6.96	33.100	25.96	
.		32	7.21	33.330	26.10	
.		40	7.50	33.460	26.17	
.		42	7.48	33.460	26.17	
.		45	7.32	33.440	26.18	
.		48	6.95	33.530	26.30	
.		50	6.91	33.560	26.33	
.		53	6.40	33.250	26.15	
.		56	5.41	33.120	26.17	
.		59	4.78	33.430	26.48	
.		61	4.49	33.360	26.45	
.		64	4.35	33.550	26.63	
.		67	4.70	33.680	26.69	
.		69	4.52	33.640	26.68	
.		73	4.55	33.670	26.70	
.		76	4.41	33.810	26.83	
.		79	4.58	33.860	26.86	
.		82	4.83	34.020	26.96	
.		85	4.91	34.060	26.97	
.		91	5.74	34.290	27.05	
.		94	5.93	34.290	27.02	
.		101	5.92	34.300	27.03	
.		103	5.87	34.260	27.01	
.		106	5.66	34.350	27.11	
.		109	6.08	34.420	27.11	
.		113	5.93	34.370	27.09	
.		116	5.89	34.500	27.19	
.		119	6.08	34.460	27.14	
.		122	6.07	34.440	27.13	
.		127	5.82	34.350	27.08	
.		130	5.51	34.360	27.14	
.		135	5.45	34.380	27.16	
.		146	5.26	34.390	27.18	
.		149	5.04	34.360	27.19	
.		153	4.91	34.400	27.24	
.		158	5.11	34.500	27.29	
.		162	5.41	34.600	27.34	
.		166	5.58	34.590	27.31	
.		169	5.62	34.570	27.29	
.		172	5.56	34.560	27.28	
.		175	5.65	34.600	27.31	
.		184	6.07	34.780	27.39	
.		187	6.39	34.880	27.43	
.		190	6.87	35.040	27.49	
.		193	7.41	35.000	27.39	
.		202	7.71	35.040	27.37	
.		208	7.74	35.040	27.37	
.		211	7.62	34.920	27.29	
.		214	7.31	34.930	27.35	
.		220	7.16	34.940	27.37	
.		223	6.96	34.790	27.28	
.		225	6.48	34.740	27.31	
.		228	6.16	34.770	27.38	
.		234	5.80	34.670	27.37	
.		237	5.65	34.700	27.41	
.		239	5.45	34.740	27.44	
.		242	5.44	34.800	27.48	
.		248	5.95	34.850	27.46	

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
46 13.0N	047 11.0W	05	24	14.3	1971	10933
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
1094	14			0	X4	0 6
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
14	08	244	09.4	09.4		971.002
14.3			9	4.24	32.560	25.83
.			11	4.19	32.500	25.81
00.2			14	4.07	32.500	25.82
.			17	3.85	32.400	25.76
.			19	3.24	32.460	25.88
.			21	2.74	32.530	25.96
.			24	2.37	32.480	25.96
.			27	2.16	32.610	26.08
.			30	1.85	32.530	26.03
.			33	1.31	32.360	25.93
.			36	0.91	32.530	26.09
.			47	0.59	32.630	26.19
.			50	0.02	32.480	26.10
.			53	0.79	32.500	26.15
.			55	1.36	32.730	26.35
.			58	1.57	32.860	26.46
.			77	1.24	33.340	26.84
.			89	0.88	33.470	26.93
.			97	0.41	33.590	27.01
.			100	0.47	33.550	26.98
.			102	0.34	33.700	27.10
.			105	0.01	33.730	27.11
.			108	0.07	33.670	27.06
.			110	0.01	33.660	27.04
.			114	0.15	33.860	27.18
.			116	0.43	33.790	27.13
.			119	0.18	33.670	27.05
.			124	0.16	33.830	27.18
.			127	0.47	34.010	27.31
.			130	0.58	33.890	27.21
.			133	0.78	34.050	27.32
.			139	1.40	34.080	27.31
.			144	1.63	34.130	27.33
.			147	1.91	34.330	27.47
.			150	2.24	34.210	27.35
.			156	2.00	34.200	27.36
.			164	2.36	34.310	27.42
.			176	2.64	34.360	27.45
.			181	2.57	34.400	27.47
.			185	2.61	34.450	27.50
.			188	2.81	34.460	27.50
.			191	2.94	34.460	27.50
.			202	2.93	34.500	27.52
.			227	3.63	34.690	27.60
.			252	3.81	34.740	27.62
.			278	3.99	34.790	27.65
.			303	4.20	34.830	27.66
.			328	4.31	34.860	27.67
.			354	4.37	34.880	27.68
.			375	4.41	34.890	27.68
.			402	4.44	34.900	27.69
.			452	4.46	34.920	27.70
.			503	4.44	34.930	27.71
.			552	4.40	34.930	27.72
.			602	4.35	34.940	27.72
.			660	4.28	34.930	27.73
.			712	4.22	34.930	27.74
.			759	4.20	34.930	27.74
.			806	4.16	34.930	27.74
.			853	4.14	34.930	27.74
.			924	4.11	34.930	27.74
.			971	4.10	34.930	27.74
.			1018	4.08	34.920	27.74

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
46 19.0N	047 23.0W	05	24	15.6	1971	10934
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
0556	00			0	x4	0
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
14	08	234	09.4	08.9		971.033

15.6	13	4.30	32.560	25.84
.	19	4.04	32.550	25.86
00.2	22	3.74	32.430	25.80
.	25	2.36	32.270	25.79
.	29	1.57	32.460	26.00
.	31	1.15	32.530	26.08
.	34	0.87	32.610	26.16
.	37	0.62	32.590	26.16
.	51	0.93	32.700	26.32
.	53	0.94	32.870	26.45
.	56	0.75	32.860	26.43
.	59	0.77	32.820	26.41
.	65	1.05	32.840	26.43
.	76	1.24	32.980	26.55
.	79	1.29	33.050	26.61
.	90	0.77	33.380	26.86
.	93	0.36	33.440	26.89
.	96	0.20	33.370	26.83
.	98	0.45	33.250	26.74
.	101	0.94	33.300	26.80
.	103	0.99	33.390	26.88
.	106	0.63	33.510	26.96
.	109	0.60	33.460	26.92
.	112	0.28	33.610	27.02
.	114	0.10	33.550	26.97
.	120	0.09	33.630	27.02
.	122	0.02	33.520	26.94
.	125	0.18	33.610	27.02
.	130	0.07	33.690	27.08
.	133	0.12	33.720	27.09
.	136	0.23	33.710	27.08
.	139	0.07	33.720	27.10
.	144	0.38	33.820	27.16
.	150	0.52	33.840	27.17
.	153	0.43	33.810	27.15
.	155	0.15	33.830	27.18
.	161	0.01	33.880	27.23
.	169	0.12	33.780	27.30
.	172	0.36	34.160	27.43
.	175	0.78	34.130	27.38
.	177	1.05	34.210	27.44
.	180	1.36	34.190	27.40
.	189	1.74	34.230	27.40
.	202	2.13	34.360	27.47
.	226	2.61	34.470	27.52
.	246	3.06	34.570	27.57
.	256	3.11	34.570	27.56
.	261	3.21	34.670	27.62
.	279	3.67	34.710	27.62
.	305	4.01	34.800	27.65
.	328	4.25	34.840	27.66
.	355	4.35	34.860	27.67
.	379	4.40	34.890	27.68
.	409	4.45	34.910	27.69
.	453	4.48	34.920	27.70
.	501	4.43	34.930	27.71

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
46 17.0N	047 33.0W	05	24	17.4	1971	10935
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
0190	00			0	x4	0
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
15	14	227	07.8	07.8		971.079

17.4	10	4.64	32.670	25.89
.	15	4.55	32.600	25.85
00.1	20	3.70	32.520	25.87
.	23	2.95	32.310	25.78
.	26	1.48	32.400	25.95
.	29	0.95	32.580	26.13
.	31	0.78	32.640	26.19
.	34	0.75	32.720	26.25
.	36	1.02	32.780	26.29
.	39	1.10	32.720	26.23
.	45	0.86	32.600	26.15
.	47	0.44	32.570	26.15
.	50	0.21	32.610	26.21
.	53	0.60	32.580	26.20
.	55	1.06	32.720	26.34
.	76	1.40	32.910	26.50
.	102	0.67	33.240	26.74
.	127	0.19	33.410	26.86
.	130	0.14	33.450	26.89
.	134	0.06	33.600	27.00
.	137	0.20	33.530	26.93
.	153	0.22	33.510	26.92

TABLE 11. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 28.0N	048 00.0W	05	24	19.1	1971	10936	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0117	15	2	2		X4	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULR	WET RULR	VIS CODE	DYN HT	
15	17	220	07.8	07.8		971.099	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
19.1		12	6.60	32.500	25.53
.		15	6.55	32.480	25.52
00.1		18	6.38	32.380	25.47
.		21	4.20	31.640	25.12
.		23	2.57	32.370	25.85
.		26	2.09	32.620	26.08
.		32	1.91	32.680	26.15
.		51	1.29	32.720	26.22
.		60	0.87	32.740	26.26
.		65	0.47	32.750	26.30
.		71	0.03	32.700	26.28
.		76	0.13	32.780	26.35
.		82	0.54	32.860	26.43
.		97	0.82	32.950	26.51

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	047 48.0W	05	25	00.3	1971	10938	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0170	16			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	16	200	08.3	08.3		971.119	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
00.3		15	4.84	32.630	25.84
.		18	4.60	32.320	25.62
00.1		21	2.51	32.250	25.76
.		24	1.77	32.470	25.99
.		26	1.47	32.560	26.08
.		30	1.27	32.630	26.15
.		33	1.20	32.640	26.17
.		35	0.99	32.520	26.08
.		38	0.69	32.600	26.16
.		41	0.58	32.650	26.21
.		44	0.69	32.720	26.26
.		46	0.65	32.630	26.19
.		52	0.06	32.650	26.24
.		55	0.01	32.740	26.31
.		57	0.22	32.630	26.23
.		60	0.78	32.570	26.20
.		63	1.09	32.690	26.31
.		65	1.25	32.750	26.36
.		71	1.39	32.820	26.42
.		74	1.26	32.890	26.48
.		76	1.23	32.850	26.45
.		102	1.16	33.050	26.60
.		126	0.49	33.260	26.75
.		152	0.03	33.460	26.89

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 35.0N	048 26.0W	05	24	21.2	1971	10937	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0099	12	1	2		X4	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
16	14	190	08.9	08.9		971.088	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
21.2		13	5.91	32.240	25.41
.		16	5.90	32.220	25.40
00.1		19	5.34	31.770	25.11
.		22	3.23	31.930	25.45
.		24	2.35	32.400	25.89
.		28	1.92	32.520	26.02
.		32	1.67	32.560	26.07
.		35	1.36	32.640	26.15
.		41	1.30	32.620	26.15
.		50	0.81	32.650	26.19
.		53	0.48	32.690	26.24
.		56	0.31	32.730	26.28
.		75	0.53	32.840	26.41
.		78	0.69	32.900	26.47
.		81	0.71	32.940	26.50

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	047 33.0W	05	25	01.4	1971	10939	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0214	16			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULR	WET RULR	VIS CODE	DYN HT	
16	15	196	08.3	08.3		971.114	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
01.4		8	4.39	32.580	25.85
.		11	4.39	32.580	25.85
00.1		19	4.35	32.560	25.84
.		23	2.83	31.970	25.51
.		26	1.53	32.540	26.06
.		33	1.07	32.630	26.17
.		42	0.57	32.670	26.23
.		48	0.39	32.690	26.25
.		52	0.01	32.660	26.24
.		58	0.25	32.680	26.27
.		61	0.69	32.630	26.25
.		64	1.00	32.690	26.31
.		67	1.20	32.850	26.44
.		71	0.90	32.920	26.49
.		74	1.03	32.800	26.40
.		78	1.13	32.810	26.41
.		81	1.28	32.880	26.47
.		84	1.29	32.920	26.50
.		102	1.10	33.070	26.61
.		127	0.51	33.320	26.80
.		140	0.44	33.390	26.85
.		144	0.34	33.450	26.89
.		152	0.26	33.470	26.91
.		155	0.20	33.520	26.95
.		177	0.46	33.620	26.99
.		194	0.40	33.740	27.09

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
46 59.0N	047 18.0W	05	25	02.7	1971	10940
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	TYPE	AMT.
0375	16			0	X4	0 6
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
16	16	196	08.3	08.3		971.080

02.7	9	4.48	32.600	25.86
.	16	4.42	32.550	25.82
00.1	18	4.08	32.360	25.71
.	21	2.14	31.740	25.38
.	24	1.22	32.490	26.04
.	27	1.09	32.600	26.14
.	29	0.99	32.570	26.12
.	32	0.76	32.560	26.13
.	38	0.32	32.600	26.18
.	41	0.01	32.530	26.14
.	44	0.48	32.620	26.24
.	53	1.11	32.700	26.32
.	56	1.27	32.760	26.38
.	75	1.42	32.900	26.49
.	78	1.46	32.910	26.50
.	99	1.28	33.110	26.66
.	101	1.15	33.220	26.74
.	104	0.91	33.270	26.78
.	126	0.23	33.370	26.83
.	152	0.04	33.520	26.94
.	175	0.42	33.680	27.04
.	200	0.78	33.900	27.20
.	209	0.83	33.930	27.22
.	227	1.35	34.070	27.30
.	251	1.59	34.160	27.36
.	254	1.64	34.150	27.35
.	266	1.63	34.200	27.39
.	272	1.61	34.230	27.41
.	275	1.83	34.350	27.49
.	278	2.22	34.390	27.49
.	286	2.75	34.500	27.54
.	291	2.87	34.560	27.57
.	297	3.23	34.660	27.62
.	302	3.76	34.770	27.65
.	311	4.20	34.860	27.68
.	326	4.41	34.900	27.69
.	351	4.42	34.920	27.70

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
46 59.0N	047 03.0W	05	25	04.0	1971	10941
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SFA	TYPE	AMT.
1118	00			0	X4	0 6
WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
14	11	190	07.8	07.8		971.041

04.0	13	3.70	32.500	25.86
.	18	3.61	32.440	25.82
00.3	21	2.90	32.230	25.71
.	24	1.92	32.360	25.90
.	26	1.42	32.460	26.01
.	30	1.07	32.530	26.09
.	32	0.88	32.580	26.14
.	41	0.17	32.640	26.22
.	44	0.07	32.650	26.23
.	47	0.39	32.530	26.15
.	50	0.88	32.760	26.36
.	53	0.95	32.810	26.40
.	55	1.14	32.670	26.30
.	59	1.40	32.920	26.50
.	68	1.54	33.020	26.59
.	76	1.44	33.110	26.66
.	87	0.93	33.350	26.84
.	89	0.67	33.350	26.83
.	92	0.66	33.290	26.78
.	95	0.63	33.480	26.93
.	98	0.44	33.440	26.89
.	100	0.34	33.480	26.92
.	111	0.06	33.560	26.97
.	114	0.03	33.520	26.94
.	116	0.09	33.630	27.03
.	119	0.13	33.560	26.98
.	122	0.04	33.740	27.12
.	124	0.29	33.860	27.20
.	127	0.55	33.830	27.16
.	141	0.57	33.820	27.15
.	153	0.92	33.970	27.25
.	156	0.94	33.950	27.23
.	158	0.88	33.940	27.23
.	161	1.00	34.100	27.35
.	164	1.16	34.050	27.30
.	166	1.22	34.090	27.32
.	172	1.56	34.180	27.38
.	178	1.65	34.170	27.36
.	190	1.50	34.170	27.37
.	202	1.80	34.250	27.41
.	227	2.43	34.380	27.47
.	239	2.61	34.430	27.49
.	242	2.50	34.380	27.46
.	252	2.73	34.490	27.53
.	276	2.89	34.570	27.58
.	301	3.48	34.690	27.62
.	325	3.82	34.760	27.64
.	353	3.98	34.780	27.64
.	377	4.14	34.820	27.65
.	403	4.27	34.850	27.67
.	453	4.44	34.900	27.69
.	501	4.44	34.920	27.70
.	560	4.43	34.930	27.71
.	612	4.36	34.940	27.72
.	754	4.20	34.930	27.74
.	902	4.08	34.930	27.75
.	974	4.01	34.930	27.75
.	1000	4.03	34.920	27.74
.	1009	4.00	34.920	27.74

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER	
				MO.	DAY	HR.			
46 59.0N		046 44.0W		05	25	05.8	1971	10942	
DEPTH TO BOTTOM	WAVE OBSERVATIONS					WEATHER CODE	CLOUD CODES		
	DIR	HGT	PER	SEA	TYPE		AMT.		
1134	00			0	X4	0	6		
WIND		BARO-METER (MRS)		AIR TEMP DEG C					
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT		
14	15	179		07.8	07.8			970.978	
05.8				10	4.25	32.570	25.86		
.				15	4.25	32.550	25.84		
00.2				18	4.09	32.440	25.77		
.				21	3.19	32.140	25.61		
.				24	2.41	32.570	26.02		
.				26	2.26	32.570	26.04		
.				29	1.79	32.530	26.04		
.				32	1.23	32.630	26.15		
.				35	0.99	32.660	26.19		
.				38	0.61	32.660	26.22		
.				40	0.04	32.640	26.23		
.				43	0.47	32.930	26.49		
.				46	0.83	33.050	26.60		
.				49	1.00	33.230	26.74		
.				52	0.98	33.270	26.78		
.				55	0.97	33.310	26.81		
.				57	0.87	33.410	26.89		
.				60	0.68	33.470	26.93		
.				68	0.72	33.540	26.98		
.				73	0.57	33.590	27.02		
.				76	0.63	33.580	27.01		
.				84	0.44	33.730	27.12		
.				87	0.10	33.830	27.19		
.				98	0.77	33.880	27.18		
.				101	0.80	33.880	27.19		
.				104	0.77	33.820	27.14		
.				106	0.19	33.760	27.12		
.				109	0.93	34.360	27.56		
.				111	1.93	34.220	27.38		
.				114	2.02	34.080	27.26		
.				118	1.68	34.040	27.25		
.				120	1.65	34.150	27.34		
.				123	1.81	34.150	27.33		
.				126	1.84	34.150	27.33		
.				129	1.87	34.220	27.38		
.				135	2.05	34.310	27.44		
.				137	2.45	34.360	27.45		
.				140	2.42	34.190	27.32		
.				144	2.24	34.290	27.41		
.				147	2.18	34.280	27.40		
.				150	2.25	34.300	27.42		
.				153	2.43	34.450	27.52		
.				156	2.73	34.420	27.47		
.				159	2.75	34.430	27.48		
.				162	2.89	34.490	27.52		
.				166	3.29	34.580	27.55		
.				177	3.59	34.610	27.54		
.				188	3.79	34.640	27.55		
.				191	3.70	34.610	27.53		
.				193	3.70	34.660	27.57		
.				196	4.15	34.940	27.75		
.				199	4.48	34.790	27.59		
.				201	4.51	34.780	27.59		
.				221	4.83	34.870	27.62		
.				224	4.70	34.780	27.56		
.				228	4.50	34.820	27.61		
.				238	4.47	34.820	27.62		
.				241	4.49	34.840	27.63		
.				252	4.84	34.910	27.65		
.				277	5.00	34.940	27.65		
.				303	4.92	34.940	27.66		
.				332	4.79	34.940	27.67		
.				353	4.74	34.940	27.68		
.				382	4.66	34.940	27.69		
.				408	4.54	34.940	27.70		
.				463	4.47	34.930	27.71		
.				506	4.42	34.940	27.72		
.				556	4.35	34.940	27.72		
.				617	4.28	34.930	27.73		
.				658	4.21	34.930	27.73		
.				717	4.16	34.930	27.74		
.				757	4.13	34.930	27.74		
.				811	4.09	34.930	27.75		
.				867	4.06	34.930	27.75		
.				905	4.03	34.930	27.75		
.				960	3.99	34.920	27.75		
.				1001	3.95	34.920	27.75		

TABLE II. Observed oceanographic data from stations occupied by USCGC EVERGREEN, 12-25 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 00.0N	046 36.0W	05	25	07.3	1971	10943	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0421	12			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	16	163	07.8	07.8		970.937	

07.3	11	6.00	32.800	25.84
.	16	5.92	32.770	25.83
00.1	19	5.33	32.330	25.55
.	22	3.43	32.550	25.92
.	24	2.54	32.630	26.06
.	27	1.91	32.770	26.22
.	30	1.49	32.930	26.37
.	33	1.76	33.070	26.47
.	39	2.12	33.100	26.47
.	41	2.12	33.040	26.42
.	44	1.87	33.020	26.43
.	47	1.49	33.010	26.44
.	49	0.84	32.990	26.47
.	52	0.39	33.240	26.70
.	55	0.35	33.410	26.83
.	59	0.42	33.570	26.96
.	61	0.57	33.600	26.97
.	63	0.56	33.590	26.96
.	66	0.46	33.530	26.92
.	69	0.21	33.630	27.01
.	77	0.44	33.840	27.17
.	80	0.54	33.980	27.28
.	83	0.97	34.040	27.30
.	86	1.23	34.030	27.28
.	101	1.85	34.160	27.33
.	109	2.35	34.270	27.38
.	126	2.67	34.370	27.44
.	132	2.81	34.370	27.42
.	135	2.76	34.420	27.47
.	143	3.13	34.510	27.51
.	151	3.22	34.540	27.53
.	175	3.75	34.680	27.59
.	202	4.92	34.890	27.62
.	225	4.86	34.880	27.62
.	252	4.91	34.920	27.65
.	278	5.08	34.960	27.66
.	303	5.06	34.970	27.67
.	330	4.79	34.950	27.68
.	356	4.54	34.910	27.68

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
47 01.0N	046 16.0W	05	25	08.7	1971	10944	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0305	14			0	X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	16	159	07.8	07.8		970.982	

08.7	17	5.67	32.680	25.79
.	20	5.39	32.590	25.75
00.6	23	4.42	32.400	25.70
.	26	3.08	32.500	25.91
.	29	2.01	32.550	26.04
.	31	1.80	32.870	26.31
.	34	1.73	32.840	26.29
.	36	1.35	32.720	26.22
.	39	1.11	32.950	26.42
.	42	0.87	32.810	26.32
.	45	0.44	32.960	26.46
.	48	0.17	33.000	26.51
.	51	0.23	33.040	26.57
.	53	0.34	33.280	26.76
.	56	0.16	33.610	27.00
.	59	0.33	33.440	26.85
.	62	0.41	33.610	26.99
.	64	0.55	33.630	27.00
.	67	0.30	33.380	26.81
.	70	0.19	33.770	27.13
.	73	0.56	33.760	27.10
.	76	0.50	33.690	27.05
.	78	0.52	33.870	27.19
.	84	1.35	34.000	27.25
.	87	1.45	33.940	27.19
.	92	1.77	34.020	27.23
.	95	1.85	34.000	27.21
.	98	1.78	33.980	27.20
.	101	1.81	34.090	27.29
.	104	2.06	34.200	27.35
.	107	2.55	34.310	27.40
.	110	2.86	34.340	27.40
.	113	3.30	34.340	27.36
.	116	3.34	34.270	27.30
.	127	2.90	34.190	27.27
.	130	2.93	34.340	27.39
.	133	3.08	34.360	27.39
.	144	3.10	34.340	27.38
.	147	3.23	34.460	27.46
.	153	3.65	34.520	27.47
.	155	3.74	34.550	27.48
.	158	3.99	34.570	27.47
.	173	4.32	34.710	27.54
.	176	4.59	34.790	27.58
.	179	4.68	34.740	27.53
.	201	4.56	34.790	27.58
.	227	4.67	34.830	27.61
.	252	4.46	34.850	27.64
.	278	4.39	34.860	27.66

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 40.5N	049 18.0W	05	20	03.2	1971	10945	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
005M	14	2	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
12	08	266	08.3	08.3		971.157	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
03.2		0	5.24	32.440	25.66		
.		2	5.24	32.460	25.66		
00.3		4	4.76	32.420	25.68		
.		7	4.87	32.450	25.69		
.		10	4.65	32.440	25.73		
.		20	2.88	32.560	25.97		
.		30	1.82	32.670	26.15		
.		44	0.70	32.810	26.13		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 33.4N	048 58.5W	05	20	07.9	1971	10947	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0399	14	2	2		X4	0	A
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
16	17	268	08.0	07.9		971.158	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
07.9		7	3.98	32.600	25.91		
.		10	3.70	32.550	25.90		
00.5		20	1.39	32.710	26.21		
.		25	1.14	32.720	26.23		
.		31	0.94	32.730	26.25		
.		36	0.58	32.730	26.27		
.		41	0.38	32.730	26.32		
.		50	0.59	32.910	26.47		
.		75	0.70	32.960	26.51		
.		100	0.91	33.040	26.58		
.		111	0.96	33.050	26.60		
.		125	0.83	33.170	26.69		
.		150	0.42	33.290	26.77		
.		175	0.08	33.440	26.87		
.		200	0.20	33.470	26.89		
.		225	0.46	33.620	26.99		
.		230	0.57	33.690	27.04		
.		236	1.02	33.770	27.08		
.		242	1.08	33.740	27.06		
.		250	1.23	33.800	27.09		
.		261	2.07	34.160	27.25		
.		270	3.22	34.200	27.26		
.		275	3.29	34.180	27.23		
.		287	3.45	34.400	27.39		
.		295	3.83	34.450	27.39		
.		301	3.88	34.440	27.40		
.		324	3.84	34.510	27.44		
.		350	3.49	34.510	27.46		
.		374	3.82	34.650	27.55		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 36.0N	049 02.5W	05	20	04.1	1971	10946	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
004A	1A	2	2		X4	0	A
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
14	10	266	08.1	08.1		971.147	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
06.1		0	4.25	32.610	25.89		
.		4	4.25	32.610	25.89		
00.4		6	3.86	32.720	26.01		
.		7	4.18	32.560	25.85		
.		10	3.26	32.540	25.92		
.		20	1.26	32.730	26.23		
.		30	0.39	32.830	26.36		
.		50	0.16	32.870	26.42		
.		58	0.21	32.890	26.44		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 33.0N	048 57.5W	05	20	09.5	1971	10948	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0669	10	2	3		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
14	13	275	08.7	08.5		971.162	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
09.5		5	3.47	32.680	26.02		
.		10	2.84	32.640	26.04		
00.6		20	1.25	32.700	26.21		
.		30	0.76	32.640	26.19		
.		50	0.61	32.760	26.35		
.		75	1.10	32.980	26.54		
.		80	1.02	32.990	26.55		
.		94	0.98	33.040	26.59		
.		100	0.85	33.080	26.62		
.		103	0.79	33.100	26.64		
.		128	0.27	33.300	26.77		
.		131	0.23	33.320	26.79		
.		153	0.06	33.390	26.83		
.		155	0.07	33.390	26.83		
.		175	0.14	33.430	26.86		
.		178	0.17	33.450	26.87		
.		192	0.38	33.570	26.96		
.		202	0.54	33.570	26.95		
.		205	0.54	33.580	26.95		
.		227	0.78	33.680	27.03		
.		230	0.81	33.700	27.04		
.		247	1.08	33.840	27.14		
.		250	1.12	33.740	27.05		
.		253	1.03	33.770	27.08		
.		265	1.15	33.870	27.15		
.		270	1.25	33.920	27.18		
.		271	1.45	34.060	27.29		
.		276	1.60	33.990	27.22		
.		281	2.00	34.140	27.32		
.		287	2.13	34.260	27.39		
.		289	2.45	34.250	27.36		
.		292	2.67	34.360	27.43		
.		295	3.01	34.350	27.39		
.		298	3.46	34.580	27.53		
.		300	3.89	34.440	27.37		
.		324	4.22	34.540	27.43		
.		329	4.20	34.550	27.43		
.		351	4.01	34.600	27.49		
.		354	4.00	34.580	27.48		
.		377	3.97	34.630	27.52		
.		380	3.94	34.630	27.53		
.		403	4.14	34.770	27.61		
.		404	4.25	34.780	27.61		
.		452	4.33	34.790	27.61		
.		455	4.33	34.790	27.61		
.		500	4.40	34.810	27.62		
.		504	4.39	34.810	27.62		
.		555	4.40	34.840	27.64		
.		601	4.37	34.850	27.65		
.		605	4.37	34.850	27.65		

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-S245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YFAR	STATION NUMREF	
		MO.	DAY	HR.			
44 34.0N	048 50.8W	05	20	12.5	1971	10949	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
2644	10	2	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	14	283	08.4	08.3			971.087

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
12.5		3	4.20	32.640	25.91
		5	4.17	32.630	25.91
01.0		8	3.84	32.560	25.89
		10	3.41	32.520	25.90
		13	2.82	32.420	25.87
		16	2.04	32.600	26.07
		21	1.45	32.640	26.15
		24	1.33	32.670	26.18
		29	1.26	32.680	26.20
		33	1.14	32.630	26.16
		35	0.97	32.670	26.20
		40	0.82	32.650	26.20
		43	0.64	32.660	26.22
		48	0.10	32.720	26.29
		51	0.04	32.750	26.32
		54	0.27	32.740	26.32
		59	0.43	32.770	26.35
		70	1.14	32.820	26.42
		75	1.32	32.880	26.47
		78	1.26	32.930	26.51
		100	0.96	33.260	26.77
		103	0.78	33.320	26.81
		108	0.62	33.360	26.84
		114	0.21	33.440	26.88
		126	0.10	33.490	26.92
		128	0.06	33.550	26.96
		141	0.35	33.600	26.98
		144	0.24	33.630	27.01
		150	0.28	33.650	27.03
		177	0.64	33.770	27.10
		183	0.75	33.870	27.17
		185	1.00	33.890	27.18
		191	1.32	33.970	27.22
		203	1.33	33.950	27.21
		206	1.33	33.960	27.22
		227	1.83	34.180	27.36
		230	1.86	34.190	27.36
		236	2.02	34.290	27.42
		239	2.30	34.360	27.46
		251	2.46	34.320	27.42
		273	3.03	34.490	27.50
		280	3.13	34.510	27.51
		302	3.65	34.620	27.55
		305	3.73	34.600	27.52
		308	3.73	34.610	27.53
		311	3.85	34.690	27.58
		321	4.43	34.710	27.54
		328	4.15	34.670	27.54
		350	4.11	34.710	27.57
		379	4.32	34.770	27.59
		402	4.38	34.800	27.61
		501	4.53	34.850	27.64
		506	4.53	34.850	27.63
		601	4.52	34.870	27.65
		707	4.47	34.870	27.66
		802	4.37	34.870	27.67
		902	4.26	34.860	27.68
		960	4.17	34.870	27.69
		1000	4.14	34.870	27.69

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 32.8N	048 37.1W	05	20	15.9	1971	10950	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SFA		TYPE	AMT.
3218	09	2	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	13	287	12.9	12.2			971.039

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
15.9		3	4.96	32.750	25.92
		10	5.96	33.000	26.00
01.5		20	4.26	32.800	26.03
		30	3.36	32.750	26.08
		35	4.56	32.850	26.06
		45	3.06	33.100	26.39
		50	3.66	33.300	26.51
		75	0.86	33.100	26.63
		100	0.96	33.600	26.95
		120	0.26	33.400	27.15
		125	1.16	33.750	27.05
		150	0.91	33.800	27.25
		155	1.66	33.950	27.18
		180	4.66	34.500	27.34
		200	5.41	34.570	27.31
		215	3.96	34.450	27.37
		230	5.66	34.700	27.38
		250	5.36	34.840	27.53
		280	5.49	34.980	27.57
		300	5.97	35.030	27.61
		400	5.20	35.010	27.69
		500	4.72	34.960	27.70
		600	4.74	35.000	27.73
		700	4.54	34.990	27.74
		800	4.42	34.980	27.75
		900	4.23	34.960	27.75
		1000	4.10	34.950	27.76

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 25.6N	048 07.0W	05	20	19.1	1971	10951	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
4145	11	2	2		X1	0	6
WIND		BARO-METER (MBS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
11	10	295	13.0	12.1			971.000

MESSFNGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
19.1		2	10.71	32.830	25.16
.		4	10.17	32.770	25.21
01.2		7	9.13	32.840	25.44
.		10	8.80	32.920	25.54
.		12	8.63	32.900	25.56
.		15	7.95	32.900	25.66
.		18	7.54	33.110	25.88
.		20	7.80	33.290	25.99
.		23	7.80	33.170	25.89
.		26	6.93	33.170	25.98
.		28	6.79	33.220	26.07
.		31	6.80	33.290	26.13
.		34	6.30	33.230	26.14
.		36	5.76	33.170	26.16
.		39	4.84	33.230	26.31
.		42	5.05	33.460	26.63
.		45	5.53	33.660	26.58
.		48	5.53	33.720	26.63
.		50	5.37	33.700	26.63
.		53	4.95	33.630	26.62
.		56	4.67	33.710	26.72
.		59	4.50	33.810	26.82
.		62	4.52	33.870	26.86
.		65	4.34	33.950	26.94
.		72	3.77	33.850	26.92
.		75	3.53	33.980	27.05
.		78	3.50	33.970	27.04
.		80	3.38	33.940	27.06
.		83	3.41	34.050	27.11
.		86	3.95	34.140	27.13
.		91	3.85	34.090	27.11
.		97	3.84	34.120	27.13
.		100	3.56	33.990	27.05
.		103	3.23	34.090	27.16
.		105	3.46	34.220	27.24
.		114	4.36	34.470	27.35
.		119	4.85	34.370	27.22
.		127	4.53	34.390	27.27
.		133	4.44	34.390	27.28
.		149	4.66	34.440	27.29
.		152	4.45	34.460	27.33
.		172	4.83	34.620	27.42
.		177	5.34	34.820	27.52
.		180	5.75	34.960	27.58
.		188	6.53	35.020	27.52
.		199	6.51	34.970	27.49
.		202	6.58	35.060	27.55
.		216	6.59	34.990	27.49
.		230	6.23	34.950	27.51
.		235	5.69	34.830	27.48
.		241	5.15	34.750	27.48
.		252	4.99	34.810	27.55
.		260	4.83	34.800	27.56
.		286	4.95	34.870	27.60
.		298	5.16	34.910	27.61
.		300	5.11	34.880	27.59
.		325	5.25	34.970	27.65
.		352	5.13	34.970	27.66
.		377	5.21	35.080	27.74
.		384	5.60	35.100	27.71
.		403	5.51	35.080	27.70
.		454	5.35	35.080	27.72
.		460	5.36	35.090	27.73
.		500	5.23	35.100	27.75
.		506	5.24	35.100	27.75
.		561	5.00	35.090	27.77
.		603	4.83	35.070	27.78
.		661	4.66	35.050	27.78
.		703	4.65	35.030	27.79
.		760	4.35	35.020	27.79
.		772	4.32	35.010	27.79
.		835	4.28	35.010	27.79
.		837	4.26	35.010	27.79
.		900	4.18	34.990	27.78
.		904	4.15	35.010	27.80
.		1000	4.21	35.000	27.79

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 17.9N	047 26.9W	05	20	23.4	1971	10952	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
5242	16	2	3		X1	0	6
WIND		BARO- METER (MBS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
13	13	295	13.5	13.0		971.061	

MESSFNGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
23.4		0	10.16	32.720	25.17
.		10	8.56	32.950	25.60
01.4		20	5.51	33.400	26.37
.		30	3.74	33.430	26.58
.		50	6.46	34.070	26.78
.		63	6.69	34.200	26.85
.		75	7.93	34.330	26.78
.		78	7.28	34.500	27.01
.		100	8.79	34.790	27.01
.		110	8.26	34.650	26.98
.		128	9.16	34.770	26.93
.		150	8.36	34.880	27.14
.		172	5.56	34.460	27.20
.		190	7.31	34.790	27.23
.		200	6.06	34.450	27.13
.		222	4.46	34.450	27.32
.		250	6.26	34.200	26.91
.		252	7.46	34.950	27.33
.		280	7.21	35.000	27.41
.		300	5.76	34.880	27.51
.		315	6.96	35.140	27.56
.		385	5.49	34.950	27.60
.		400	5.84	35.050	27.64
.		409	5.76	35.220	27.78
.		430	6.04	35.090	27.64
.		500	5.08	35.000	27.69
.		510	5.00	35.000	27.70
.		537	5.18	35.050	27.71
.		550	4.80	34.920	27.66
.		600	4.73	35.000	27.73
.		700	4.58	35.000	27.74
.		800	4.39	34.990	27.76
.		900	4.34	35.000	27.77
.		1000	4.28	35.010	27.79

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
44 12.8N	046 59.0W	05	21	05.1	1971	10953
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
5442	17	2	3		14	0
WIND		RAAO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	WYN HT
14	10	300	14.8	13.9		971.064
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T	
05.1		2	11.21	32.700	24.98	
		4	10.86	32.420	24.82	
00.8		7	8.94	32.390	25.11	
		10	7.24	32.380	25.35	
		12	5.79	32.650	25.75	
		15	5.50	32.620	25.76	
		18	5.14	32.930	26.05	
		21	5.12	32.860	25.99	
		24	4.86	32.890	26.05	
		26	5.01	33.020	26.13	
		29	4.82	32.720	25.91	
		32	4.14	32.770	26.03	
		35	3.74	32.820	26.10	
		38	3.44	32.780	26.10	
		41	3.10	33.010	26.32	
		43	3.30	33.020	26.31	
		49	2.99	32.920	26.26	
		51	2.54	33.140	26.46	
		57	2.77	33.350	26.61	
		61	3.02	33.520	26.73	
		65	3.05	33.460	26.68	
		72	2.38	33.280	26.59	
		74	2.13	33.470	26.76	
		77	2.21	33.560	26.83	
		80	2.35	33.580	26.83	
		85	2.29	33.590	26.84	
		93	2.81	33.770	26.95	
		96	2.64	33.530	26.77	
		99	2.10	33.700	26.95	
		101	2.22	33.780	27.00	
		107	2.47	33.990	27.15	
		110	2.89	33.860	27.01	
		113	2.42	33.620	26.86	
		115	2.07	33.790	27.03	
		121	1.83	33.850	27.09	
		129	2.04	33.960	27.16	
		147	2.57	33.980	27.14	
		150	2.49	34.010	27.18	
		158	3.10	34.120	27.20	
		161	3.03	34.100	27.19	
		164	3.05	34.170	27.24	
		181	4.65	34.700	27.50	
		186	6.29	35.100	27.62	
		192	7.04	34.840	27.31	
		198	6.74	34.760	27.29	
		202	6.38	34.540	27.20	
		215	4.82	34.460	27.29	
		227	4.45	34.500	27.37	
		233	4.23	34.420	27.33	
		237	3.97	34.440	27.37	
		245	4.80	34.700	27.49	
		248	5.16	34.740	27.47	
		262	5.57	34.760	27.44	
		277	5.35	34.740	27.46	
		287	5.07	34.760	27.50	
		296	5.30	34.770	27.48	
		302	5.18	34.740	27.47	
		317	5.41	34.780	27.48	
		320	5.18	34.760	27.49	
		353	4.81	34.830	27.59	
		377	5.07	34.860	27.58	
		383	5.08	34.870	27.59	
		402	5.00	34.870	27.60	
		458	4.92	34.920	27.64	
		500	5.41	35.010	27.66	
		571	4.73	34.930	27.68	
		607	4.65	34.930	27.69	
		653	4.86	35.000	27.72	
		701	4.77	34.980	27.71	
		771	4.54	34.950	27.72	
		816	4.37	34.930	27.72	
		889	4.27	34.920	27.72	
		936	4.17	34.910	27.72	
		959	4.12	34.900	27.72	
		983	4.08	34.900	27.73	
		1007	4.08	34.910	27.73	

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
45 01.5N	046 29.2W	05	21	11.1	1971	10954
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
3548	15	2	3		11	0
WIND		RAAO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	WYN HT
14	11	310	13.0	12.5		971.035
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T	
11.1		0	9.79	32.940	25.41	
		2	9.88	32.940	25.42	
01.0		4	9.70	33.000	25.47	
		7	9.34	32.770	25.35	
		10	8.11	32.910	25.65	
		15	7.35	33.120	25.91	
		21	6.75	33.070	25.96	
		24	6.49	33.110	26.02	
		26	5.90	32.920	25.95	
		29	5.19	33.040	26.13	
		32	5.43	33.700	26.62	
		34	6.47	33.710	26.50	
		42	4.54	33.530	26.59	
		47	5.12	33.640	26.61	
		50	5.18	33.740	26.68	
		53	5.39	33.770	26.68	
		59	5.42	33.770	26.68	
		61	5.29	33.840	26.75	
		64	5.54	33.980	26.83	
		72	5.76	34.020	26.83	
		75	5.98	34.040	26.83	
		84	5.57	34.140	26.95	
		86	5.72	34.120	26.92	
		89	5.20	33.940	26.84	
		94	4.92	34.100	27.00	
		100	5.97	34.520	27.20	
		102	6.85	34.620	27.17	
		111	7.04	34.550	27.08	
		116	7.20	34.480	27.01	
		122	6.79	34.600	27.15	
		125	6.99	34.560	27.09	
		131	6.68	34.390	27.01	
		150	6.26	34.480	27.13	
		153	6.19	34.540	27.16	
		158	5.62	34.280	27.06	
		161	5.49	34.650	27.17	
		166	5.88	34.430	27.17	
		177	4.18	34.100	27.22	
		182	4.40	34.140	27.24	
		191	4.81	34.470	27.30	
		193	4.87	34.550	27.36	
		199	4.75	34.430	27.28	
		202	4.71	34.390	27.25	
		207	4.29	34.430	27.33	
		210	4.41	34.290	27.20	
		214	3.28	34.220	27.27	
		222	3.03	34.250	27.31	
		225	3.06	34.340	27.38	
		231	4.39	34.820	27.63	
		233	5.00	34.700	27.46	
		250	5.65	34.740	27.41	
		256	5.79	34.800	27.44	
		262	7.18	35.140	27.53	
		279	7.26	35.060	27.46	
		301	7.28	35.100	27.48	
		310	7.12	35.030	27.45	
		325	6.88	35.040	27.49	
		336	6.24	34.940	27.50	
		353	5.39	34.840	27.53	
		365	5.24	34.880	27.58	
		378	5.84	34.970	27.57	
		397	6.06	35.070	27.63	
		401	6.07	35.040	27.60	
		428	5.38	34.940	27.61	
		455	5.62	34.940	27.65	
		504	5.11	35.010	27.69	
		554	5.15	35.010	27.69	
		604	4.74	34.980	27.72	
		658	4.66	34.990	27.73	
		706	4.59	35.000	27.75	
		757	4.50	34.980	27.75	
		807	4.40	34.980	27.77	
		967	4.26	34.980	27.77	
		1007	4.21	34.980	27.77	
		1019	4.20	34.980	27.77	

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
45 16.9N	047 11.4W	05	21	14.6	1971	10955
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
2856	16	2	2		X1	0
WIND		BARO-METER (HRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
16	09	306	14.8	14.2		971.079
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T	
14.6		1	10.81	32.900	25.20	
.		5	10.62	32.880	25.22	
01.0		8	10.07	32.760	25.22	
.		11	8.98	32.810	25.43	
.		14	7.91	32.790	25.58	
.		17	7.81	32.940	25.71	
.		19	7.36	33.030	25.84	
.		23	7.00	33.180	26.01	
.		25	6.51	33.190	26.09	
.		28	5.95	33.100	26.08	
.		31	5.52	33.270	26.27	
.		34	5.61	33.340	26.31	
.		36	5.18	33.070	26.15	
.		39	4.66	33.300	26.39	
.		42	4.84	33.480	26.52	
.		45	4.67	33.480	26.52	
.		47	4.24	33.540	26.62	
.		50	4.12	33.630	26.71	
.		53	4.20	33.730	26.78	
.		55	4.27	33.730	26.77	
.		58	4.55	33.940	26.91	
.		60	4.83	33.870	26.82	
.		63	4.76	33.850	26.81	
.		66	4.95	34.120	27.01	
.		68	5.39	34.120	26.96	
.		71	5.54	34.250	27.04	
.		74	6.52	34.690	27.26	
.		78	7.13	34.500	27.03	
.		80	7.21	34.490	27.01	
.		100	6.86	34.500	27.07	
.		103	6.89	34.520	27.08	
.		106	6.91	34.480	27.05	
.		113	6.78	34.540	27.11	
.		119	7.20	34.650	27.14	
.		125	7.18	34.600	27.10	
.		128	6.98	34.510	27.06	
.		131	6.79	34.600	27.16	
.		133	6.88	34.600	27.14	
.		136	6.80	34.540	27.11	
.		139	6.38	34.500	27.13	
.		142	6.24	34.410	27.08	
.		144	5.95	34.500	27.19	
.		147	5.95	34.510	27.20	
.		150	5.71	34.420	27.16	
.		153	5.47	34.450	27.21	
.		164	5.54	34.530	27.26	
.		167	5.43	34.410	27.18	
.		170	5.60	34.690	27.38	
.		173	5.79	34.640	27.32	
.		176	5.86	34.660	27.32	
.		179	5.95	34.690	27.34	
.		182	6.05	34.740	27.36	
.		190	6.51	34.800	27.35	
.		192	6.37	34.670	27.27	
.		195	6.17	34.720	27.33	
.		201	6.11	34.750	27.37	
.		204	6.15	34.740	27.35	
.		207	6.07	34.610	27.26	
.		209	5.52	34.580	27.31	
.		213	5.57	34.790	27.46	
.		215	5.80	34.870	27.50	
.		218	6.39	35.040	27.55	
.		221	6.72	34.990	27.48	
.		224	6.47	35.070	27.46	

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
45 30.0N	047 32.0W	05	21	18.3	1971	10956
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIR	HGT	PER	SEA	WEATHER CODE	TYPE
2030	17	1	3		X1	0
WIND		BARO-METER (HRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
16	11	295	12.8	12.5		970.955
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T	
18.3		0	5.34	32.780	25.90	
.		4	5.72	32.770	25.86	
00.8		7	5.07	32.520	25.73	
.		9	3.97	32.490	25.82	
.		12	2.75	32.620	26.04	
.		15	1.84	32.700	26.17	
.		18	1.45	32.800	26.27	
.		21	1.21	32.830	26.32	
.		24	1.04	32.850	26.34	
.		29	0.88	32.880	26.38	
.		31	0.93	32.920	26.40	
.		34	0.83	32.910	26.40	
.		37	0.67	32.860	26.38	
.		42	0.18	32.990	26.51	
.		45	0.14	33.040	26.54	
.		48	0.04	32.990	26.51	
.		50	0.37	33.000	26.54	
.		53	0.51	33.170	26.67	
.		61	0.49	33.280	26.77	
.		64	0.48	33.410	26.87	
.		77	0.39	33.580	27.01	
.		80	0.40	33.660	27.07	
.		96	0.31	33.980	27.29	
.		99	0.52	33.980	27.28	
.		101	0.58	33.980	27.28	
.		104	0.62	33.990	27.28	
.		107	0.56	34.000	27.29	
.		116	0.87	34.090	27.35	
.		118	0.91	34.060	27.32	
.		121	0.80	34.060	27.32	
.		127	1.01	34.160	27.40	
.		129	1.16	34.200	27.42	
.		151	1.67	34.310	27.47	
.		154	1.71	34.310	27.46	
.		157	1.80	34.360	27.50	
.		160	2.07	34.640	27.71	
.		162	2.53	34.280	27.38	
.		165	2.15	34.370	27.48	
.		168	2.37	34.580	27.63	
.		170	3.03	34.810	27.76	
.		173	4.40	34.830	27.63	
.		176	4.48	34.710	27.53	
.		179	4.40	34.670	27.51	
.		182	4.38	34.760	27.58	
.		184	4.68	34.810	27.59	
.		187	4.72	34.750	27.54	
.		190	4.90	34.940	27.66	
.		192	5.16	34.880	27.58	
.		195	5.07	34.730	27.48	
.		198	5.01	34.920	27.63	
.		201	5.01	34.720	27.48	
.		209	4.90	34.810	27.56	
.		212	4.52	34.480	27.34	
.		214	3.96	34.380	27.32	

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 35.2N	047 36.9W	05	21	19.9	1971	10957	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1507	15	1	2		X2	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPFED		DRY BULB	WET BULB	VIS CODE	DYN HT	
15	12	290	12.0	11.9			970.978
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
19.9		0	9.16	33.180	25.69		
.		9	8.13	33.030	25.74		
00.8		12	6.87	32.810	25.74		
.		14	5.76	33.050	26.07		
.		17	5.30	33.050	26.12		
.		20	4.94	33.130	26.23		
.		23	4.78	33.130	26.24		
.		26	4.69	33.160	26.28		
.		31	4.66	33.200	26.31		
.		34	4.66	33.140	26.27		
.		36	4.51	33.210	26.33		
.		39	4.59	33.220	26.34		
.		42	4.44	33.150	26.30		
.		44	4.15	33.130	26.31		
.		47	3.68	32.980	26.24		
.		52	2.08	32.890	26.30		
.		55	0.80	32.720	26.25		
.		58	0.15	33.390	26.83		
.		60	0.96	33.460	26.83		
.		65	1.87	33.590	26.88		
.		68	2.09	33.480	26.78		
.		73	1.82	33.410	26.74		
.		76	1.24	33.520	26.87		
.		79	1.97	33.860	27.09		
.		82	1.88	33.540	26.84		
.		85	1.47	33.830	27.10		
.		91	1.56	33.820	27.09		
.		93	1.23	33.650	26.98		
.		96	0.74	33.680	27.03		
.		99	0.94	34.110	27.36		
.		102	1.48	34.070	27.29		
.		104	1.82	33.990	27.20		
.		107	1.40	33.910	27.17		
.		110	1.41	34.030	27.27		
.		116	1.93	34.140	27.32		
.		118	1.72	33.890	27.13		
.		121	1.01	33.910	27.19		
.		124	0.80	33.990	27.27		
.		127	0.82	34.190	27.43		
.		129	0.93	34.050	27.31		
.		135	0.96	34.150	27.39		
.		138	1.64	34.470	27.60		
.		141	2.40	34.390	27.48		
.		144	2.77	34.440	27.49		
.		147	3.67	34.620	27.54		
.		150	3.91	34.480	27.41		
.		152	3.92	34.490	27.41		
.		155	4.12	34.570	27.46		
.		158	4.34	34.570	27.43		
.		161	4.37	34.580	27.43		
.		164	4.64	34.790	27.57		
.		166	4.89	34.700	27.47		
.		169	5.12	34.750	27.49		
.		172	5.23	34.700	27.44		
.		177	5.06	34.690	27.45		
.		180	5.06	34.590	27.37		
.		183	4.42	34.580	27.44		
.		185	4.65	34.800	27.54		

.	188	4.94	34.730	27.50
.	195	5.08	34.800	27.54
.	198	5.27	34.800	27.51
.	201	5.26	34.790	27.51
.	204	5.45	34.890	27.56
.	206	5.57	34.860	27.52
.	224	5.28	34.820	27.52
.	228	5.29	34.840	27.54
.	231	5.34	34.860	27.55
.	253	5.48	34.920	27.58
.	255	5.53	34.930	27.58
.	276	5.71	34.980	27.60
.	278	5.71	34.980	27.59
.	300	5.50	34.960	27.61
.	304	5.49	34.960	27.61
.	327	5.26	34.950	27.63
.	330	5.24	34.940	27.62
.	354	4.68	34.900	27.66
.	359	4.67	34.910	27.67
.	379	4.54	34.900	27.68
.	383	4.53	34.910	27.68
.	404	4.50	34.920	27.70
.	408	4.51	34.920	27.70
.	453	4.67	34.970	27.71
.	457	4.67	34.970	27.71
.	502	4.81	35.000	27.73
.	508	4.81	35.000	27.72
.	554	4.82	35.020	27.74
.	561	4.81	35.020	27.74
.	606	4.45	34.980	27.75
.	614	4.40	34.970	27.74
.	650	4.28	34.960	27.75
.	659	4.25	34.960	27.75
.	705	4.15	34.960	27.76
.	712	4.14	34.960	27.76
.	753	4.05	34.950	27.77
.	761	4.05	34.950	27.77
.	802	4.02	34.950	27.77
.	810	4.02	34.950	27.77
.	856	4.04	34.950	27.77
.	864	4.02	34.960	27.78
.	906	3.98	34.940	27.76
.	911	3.94	34.940	27.77
.	951	3.87	34.940	27.77
.	959	3.88	34.940	27.78
.	1000	3.87	34.930	27.77
.	1008	3.86	34.930	27.77

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 39.8N	047 50.3W	05	21	21.6	1971	10958	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
1328	14	1	2		X2	0	6
WIND		BAROMETER (MB)		AIR TEMP DEG C			
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT
15	13	285		12.0	11.6		970.9A2
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
21.6		0	7.18	32.880	25.75		
.		3	7.38	32.690	25.57		
00.7		5	6.51	32.530	25.56		
.		8	5.26	32.430	25.64		
.		11	4.18	32.600	25.89		
.		13	3.44	32.560	25.93		
.		17	2.44	32.670	26.10		
.		19	1.91	32.740	26.20		
.		22	1.74	32.750	26.22		
.		24	1.46	32.720	26.21		
.		27	1.12	32.690	26.21		
.		30	0.90	32.800	26.31		
.		32	0.83	32.820	26.33		
.		36	0.77	32.810	26.32		
.		41	0.49	32.780	26.32		
.		44	0.19	32.630	26.23		
.		47	0.93	32.800	26.40		
.		50	1.18	32.920	26.50		
.		53	1.30	32.950	26.52		
.		56	1.35	33.020	26.58		
.		70	1.11	33.350	26.84		
.		76	1.06	33.420	26.90		
.		79	0.81	33.540	26.98		
.		81	0.67	33.530	26.97		
.		98	0.57	33.670	27.08		
.		100	0.02	34.130	27.43		
.		104	1.43	34.230	27.42		
.		106	2.68	34.840	27.81		
.		109	4.68	34.710	27.51		
.		112	5.53	34.720	27.42		
.		114	5.72	34.540	27.25		
.		117	5.75	34.600	27.29		
.		125	5.91	34.540	27.23		
.		128	5.60	34.340	27.11		
.		131	5.14	34.470	27.26		
.		142	5.00	34.480	27.29		
.		144	4.75	34.330	27.20		
.		147	4.35	34.410	27.31		
.		150	4.28	34.350	27.26		
.		153	4.15	34.470	27.37		
.		156	4.28	34.460	27.36		
.		159	4.27	34.470	27.36		
.		161	4.35	34.610	27.46		
.		164	4.95	34.770	27.52		
.		167	5.27	34.660	27.40		
.		175	5.37	34.670	27.39		
.		178	5.38	34.690	27.41		
.		187	5.35	34.690	27.41		
.		201	5.10	34.690	27.44		
.		204	5.06	34.620	27.39		
.		206	4.93	34.650	27.43		
.		217	5.08	34.760	27.50		
.		220	5.35	34.910	27.58		
.		223	5.61	34.840	27.50		
.		226	5.57	34.810	27.48		
.		230	5.55	34.850	27.51		
.		236	5.55	34.830	27.50		
.		239	5.46	34.750	27.45		

244	4.84	34.670	27.46
247	4.83	34.820	27.58
250	5.04	34.860	27.59
253	5.21	34.850	27.56
256	4.92	34.470	27.29
259	3.69	34.460	27.41
263	3.86	34.690	27.58
264	3.48	34.470	27.44
269	3.61	34.770	27.66
273	3.79	34.780	27.66
275	4.16	34.860	27.68
278	4.30	34.780	27.61
282	4.31	34.820	27.63
288	4.54	34.910	27.68
300	4.90	34.920	27.65
303	4.91	34.890	27.62
325	4.69	34.890	27.65
329	4.68	34.900	27.65
338	4.67	34.880	27.64
352	4.61	34.930	27.69
356	4.64	34.930	27.69
377	4.62	34.920	27.68
381	4.61	34.940	27.69
403	4.67	34.950	27.70
406	4.66	34.950	27.70
417	4.64	34.960	27.71
452	4.83	35.030	27.74
457	4.89	35.010	27.72
501	4.83	35.010	27.72
504	4.80	35.010	27.73
555	4.61	35.030	27.77
563	4.69	35.010	27.75
606	4.61	35.000	27.74
614	4.56	34.990	27.74
651	4.31	34.970	27.75
659	4.32	34.970	27.75
703	4.20	34.950	27.75
712	4.20	34.960	27.76
751	4.18	34.950	27.76
759	4.17	34.950	27.76
804	4.13	34.950	27.76
813	4.12	34.960	27.77
857	4.14	34.960	27.76
864	4.12	34.960	27.76
902	4.09	34.950	27.76
909	4.08	34.950	27.77
954	4.02	34.940	27.76
961	4.01	34.940	27.76
1000	4.01	34.950	27.77
1004	3.98	34.940	27.76
1010	3.97	34.930	27.76
1046	3.94	34.940	27.77

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
45 43.0N	047 57.6W	05	21	23.1	1971	10959
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIP	HGT	PER	SFA	WEATHER CODE	TYPE
0720	10	0	2		X2	0
WIND		BARO-METER (HRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
15	14	285	11.0	10.5		971.016

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
23.1		2	5.74	32.690	25.79
.		5	5.22	32.300	25.54
00.6		7	3.87	32.510	25.85
.		10	3.34	32.550	25.93
.		13	2.52	32.660	26.08
.		15	1.86	32.560	26.05
.		18	1.24	32.680	26.20
.		21	0.99	32.720	26.24
.		24	0.72	32.760	26.29
.		32	0.37	32.780	26.33
.		34	0.21	32.790	26.34
.		37	0.05	32.760	26.32
.		40	0.64	32.680	26.29
.		42	1.13	32.850	26.45
.		50	1.25	32.950	26.53
.		54	1.27	32.960	26.54
.		62	1.34	33.060	26.62
.		71	1.14	33.240	26.75
.		74	0.91	33.290	26.79
.		77	0.78	33.300	26.79
.		79	0.87	33.280	26.78
.		82	0.85	33.390	26.87
.		84	0.66	33.380	26.85
.		99	0.39	33.470	26.91
.		102	0.50	33.490	26.94
.		105	0.36	33.640	27.05
.		108	0.23	33.540	26.97
.		113	0.33	33.590	27.01
.		116	0.23	33.710	27.10
.		123	0.36	33.740	27.10
.		126	0.41	33.720	27.08
.		128	0.37	33.730	27.08
.		150	0.33	33.860	27.19
.		152	0.48	33.930	27.25
.		155	0.63	33.930	27.23
.		161	1.05	33.970	27.24
.		175	1.35	34.060	27.29
.		178	1.36	34.070	27.30
.		182	1.37	34.050	27.28
.		185	1.28	34.070	27.31
.		189	1.31	34.100	27.33
.		192	1.43	34.210	27.41
.		195	1.72	34.220	27.39
.		201	1.95	34.250	27.40
.		204	2.16	34.290	27.41
.		213	2.24	34.290	27.41
.		220	2.18	34.340	27.45
.		225	2.35	34.380	27.47
.		228	2.42	34.400	27.48
.		250	3.10	34.620	27.60
.		255	3.28	34.620	27.58
.		259	3.31	34.640	27.59
.		279	3.59	34.690	27.61
.		285	3.63	34.700	27.61
.		304	3.87	34.760	27.64
.		310	3.95	34.780	27.64
.		326	4.02	34.780	27.64
.		331	4.03	34.780	27.64
.		353	4.20	34.840	27.66
.		358	4.23	34.850	27.67
.		381	4.32	34.870	27.68
.		387	4.39	34.890	27.69
.		401	4.42	34.890	27.68
.		413	4.43	34.900	27.68
.		468	4.47	34.920	27.70
.		490	4.47	34.920	27.70
.		513	4.46	34.920	27.70
.		517	4.44	34.920	27.70
.		561	4.42	34.920	27.70
.		585	4.40	34.920	27.71
.		609	4.37	34.920	27.71
.		633	4.34	34.920	27.71
.		656	4.32	34.920	27.71
.		677	4.31	34.930	27.72

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
45 44.8N	048 04.2W	05	22	00.3	1971	10960
DEPTH TO BOTTOM	WAVE OBSERVATIONS				CLOUD CODES	
	DIP	HGT	PER	SFA	WEATHER CODE	TYPE
0355	18	2	2		X1	0
WIND		BARO-METER (HRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
14	10	185	14.1	12.7		971.058

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
00.3		0	6.59	32.660	25.65
.		10	2.24	32.300	25.82
00.4		20	0.77	32.720	26.25
.		28	0.60	32.660	26.22
.		30	0.47	32.750	26.30
.		33	0.58	32.750	26.29
.		36	0.56	32.740	26.28
.		39	0.29	32.590	26.17
.		41	0.32	32.700	26.29
.		44	0.48	32.700	26.30
.		47	0.74	32.800	26.39
.		53	0.71	32.820	26.40
.		55	0.91	32.800	26.39
.		61	1.23	32.900	26.48
.		72	1.31	33.010	26.58
.		77	1.22	33.070	26.62
.		80	1.12	33.100	26.65
.		99	0.57	33.210	26.72
.		102	0.54	33.220	26.72
.		104	0.56	33.210	26.71
.		107	0.54	33.270	26.76
.		126	0.19	33.420	26.87
.		129	0.16	33.440	26.88
.		142	0.02	33.580	26.99
.		148	0.16	33.570	26.98
.		151	0.18	33.640	27.04
.		154	0.12	33.660	27.06
.		165	0.34	33.780	27.13
.		177	0.65	33.830	27.15
.		181	0.55	33.800	27.13
.		184	0.56	33.900	27.22
.		189	0.83	34.010	27.29
.		192	1.01	33.950	27.23
.		200	1.18	34.010	27.27
.		203	1.31	34.040	27.28
.		226	1.63	34.120	27.32
.		228	1.67	34.130	27.33
.		252	1.87	34.190	27.36
.		256	1.91	34.200	27.36
.		275	2.13	34.270	27.40
.		293	2.48	34.380	27.46
.		312	2.77	34.460	27.50
.		322	3.28	34.500	27.49

STOP
*DEF (C., FORM)

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
46 50.6N	048 14.2W	05	22	02.1	1971	10961	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
011A	17	2	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	15	280	10.2	09.8		971.057	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
02.1		2	4.55	32.720	25.94
.		5	4.37	32.630	25.89
00.2		8	3.81	32.570	25.90
.		11	2.70	32.500	25.95
.		13	2.16	32.680	26.13
.		16	1.70	32.630	26.12
.		19	1.45	32.720	26.21
.		21	1.33	32.760	26.25
.		24	1.23	32.760	26.26
.		27	1.05	32.720	26.24
.		30	0.81	32.800	26.32
.		32	0.75	32.800	26.32
.		35	0.42	32.730	26.28
.		41	0.15	32.770	26.34
.		44	0.66	32.820	26.40
.		47	0.96	32.860	26.44
.		50	1.15	32.900	26.48
.		52	1.16	32.960	26.53
.		55	1.16	32.940	26.51
.		71	1.32	33.020	26.59
.		77	1.32	33.030	26.60
.		79	1.31	33.050	26.61
.		96	0.77	33.270	26.77
.		102	0.68	33.270	26.77
.		104	0.68	33.270	26.76
.		106	0.38	33.270	26.75

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 20.3N	049 06.0W	05	22	11.A	1971	10963	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0080	15	1	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
15	17	245	10.2	09.5			971.147

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
11.8		5	5.55	32.360	25.55
.		7	5.54	32.350	25.54
00.1		10	5.42	32.310	25.53
.		13	5.16	32.240	25.50
.		15	4.66	32.270	25.58
.		18	4.30	32.210	25.57
.		21	3.46	32.280	25.71
.		24	3.05	32.290	25.75
.		26	2.72	32.410	25.87
.		29	2.21	32.480	25.97
.		32	1.92	32.610	26.10
.		35	1.81	32.640	26.12
.		43	1.35	32.680	26.19
.		48	1.38	32.720	26.22
.		51	0.96	32.510	26.08
.		54	0.56	32.660	26.22
.		57	0.07	32.430	26.22
.		60	0.40	32.820	26.39
.		62	0.47	32.890	26.45

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 56.8N	048 25.2W	05	22	04.0	1971	10962	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0101	13	2	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
15	14	272	10.5	10.3		971.072	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
04.0		2	6.85	32.330	25.36
.		5	6.88	32.300	25.33
00.1		7	6.02	32.160	25.33
.		10	5.53	32.410	25.59
.		13	4.58	32.390	25.68
.		18	3.29	32.670	26.03
.		21	3.03	32.570	25.97
.		24	2.46	32.590	26.04
.		27	2.14	32.770	26.20
.		29	2.14	32.760	26.20
.		32	1.95	32.780	26.23
.		35	1.83	32.790	26.24
.		46	0.87	32.810	26.32
.		52	0.25	32.830	26.37
.		54	0.01	32.860	26.41
.		67	0.47	32.950	26.50
.		76	0.78	33.020	26.57
.		79	0.80	33.040	26.58
.		84	0.81	33.040	26.59

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 16.6N	048 49.2W	05	22	13.9	1971	10964	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0095	16	2	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	17	245	10.8	10.2		971.135	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
13.9		3	5.80	32.480	25.62
.		6	5.73	32.450	25.60
00.1		9	5.12	32.350	25.59
.		11	4.40	32.420	25.73
.		14	3.61	32.510	25.87
.		19	2.23	32.680	26.13
.		22	2.03	32.730	26.18
.		25	1.94	32.750	26.20
.		28	1.64	32.700	26.18
.		31	1.36	32.780	26.27
.		34	1.27	32.790	26.28
.		47	1.15	32.790	26.28
.		50	0.98	32.700	26.23
.		52	0.74	32.770	26.30
.		55	0.50	32.740	26.29
.		61	0.09	32.790	26.35
.		63	0.37	32.800	26.37
.		66	0.58	32.920	26.48
.		77	0.71	32.980	26.53

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 14.9N	048 47.2W	05	22	15.1	1971	10965	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0380	15	3	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	16	245	13.0	12.8		971.108	

MESSAGE TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
15.1		4	5.28	32.690	25.84
.		7	5.25	32.580	25.76
00.5		9	4.59	32.410	25.70
.		12	3.45	32.510	25.89
.		15	2.84	32.680	26.07
.		23	2.04	32.730	26.18
.		25	1.93	32.690	26.16
.		28	1.67	32.720	26.20
.		31	1.55	32.730	26.22
.		34	1.31	32.670	26.18
.		39	0.96	32.760	26.28
.		42	0.90	32.730	26.26
.		47	0.42	32.750	26.30
.		50	0.28	32.790	26.33
.		53	0.10	32.770	26.33
.		67	1.00	32.890	26.47
.		72	1.16	33.000	26.56
.		77	1.09	33.100	26.64
.		80	1.01	33.150	26.68
.		103	0.70	33.230	26.73
.		106	0.65	33.250	26.75
.		116	0.57	33.290	26.77
.		129	0.31	33.340	26.81
.		136	0.28	33.360	26.82
.		152	0.20	33.390	26.85
.		158	0.20	33.400	26.85
.		179	0.11	33.460	26.89
.		184	0.05	33.530	26.94
.		207	0.34	33.680	27.05
.		213	0.44	33.710	27.07
.		228	0.79	33.890	27.19
.		236	0.93	33.920	27.21
.		254	1.29	34.060	27.30
.		267	1.67	34.210	27.39
.		277	2.07	34.330	27.46
.		282	2.27	34.390	27.49
.		293	2.77	34.520	27.54
.		304	2.96	34.510	27.53
.		309	2.98	34.520	27.53
.		329	3.11	34.540	27.54
.		334	3.12	34.550	27.54
.		351	3.14	34.560	27.55
.		356	3.17	34.560	27.55
.		367	3.18	34.570	27.55

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 17.4N	048 39.2W	05	22	16.2	1971	10966	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0728	11	2	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
14	18	242	12.0	11.2			971.031

MESSAGE TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
16.2		0	4.91	32.700	25.89
.		3	4.90	32.600	25.81
00.6		5	4.64	32.600	25.84
.		8	4.03	32.490	25.81
.		11	3.11	32.410	25.84
.		14	2.31	32.610	26.06
.		19	1.45	32.630	26.14
.		23	1.18	32.720	26.23
.		26	1.31	32.810	26.29
.		28	1.43	32.810	26.28
.		31	1.39	32.720	26.22
.		37	0.99	32.790	26.10
.		40	1.04	32.800	26.10
.		43	0.95	32.760	26.27
.		46	0.77	32.790	26.31
.		48	0.51	32.720	26.27
.		51	0.08	32.660	26.24
.		53	0.26	32.720	26.30
.		54	0.98	32.720	26.33
.		59	1.24	32.860	26.46
.		62	1.27	32.940	26.52
.		65	1.20	32.990	26.55
.		76	1.17	33.020	26.59
.		78	1.40	33.040	26.60
.		82	1.45	33.060	26.62
.		85	1.44	33.120	26.67
.		102	0.82	33.240	26.78
.		104	0.73	33.330	26.82
.		117	0.36	33.410	26.87
.		125	0.34	33.420	26.87
.		129	0.32	33.430	26.88
.		151	0.10	33.600	27.01
.		154	0.10	33.560	26.98
.		163	0.17	33.620	27.01
.		171	0.07	33.620	27.02
.		175	0.01	33.660	27.05
.		179	0.20	33.710	27.08
.		184	0.26	33.680	27.05
.		199	0.28	33.710	27.08
.		194	0.45	33.760	27.10
.		204	0.56	33.800	27.13
.		209	0.49	33.720	27.07
.		215	0.38	33.920	27.24
.		226	0.93	33.970	27.25
.		232	1.12	34.000	27.26
.		248	1.39	34.100	27.32
.		255	1.56	34.220	27.41
.		260	1.83	34.270	27.43
.		275	2.17	34.350	27.47
.		285	2.77	34.510	27.54
.		306	3.50	34.680	27.60
.		316	3.61	34.700	27.62
.		327	3.80	34.760	27.64
.		338	4.00	34.790	27.64
.		402	4.42	34.890	27.68
.		426	4.43	34.900	27.68
.		473	4.44	34.910	27.69
.		497	4.51	34.930	27.70
.		522	4.52	34.930	27.70
.		546	4.47	34.930	27.71
.		571	4.42	34.940	27.72
.		596	4.41	34.930	27.71
.		619	4.39	34.930	27.72
.		645	4.37	34.940	27.72
.		669	4.35	34.930	27.72
.		681	4.33	34.930	27.72
.		703	4.30	34.930	27.72
.		713	4.30	34.930	27.72

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 10.0N	048 32.8W	05	22	18.1	1971	10967	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1401	14	3	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	QYN HT	
16	20	237	11.5	10.8			971.020

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
18.1		8	4.63	32.700	25.92
		10	4.11	32.570	25.87
00.7		13	3.30	32.490	25.88
		16	2.25	32.580	26.04
		19	1.62	32.690	26.17
		21	1.21	32.740	26.24
		24	1.05	32.770	26.28
		27	0.86	32.790	26.30
		31	0.78	32.820	26.33
		33	0.72	32.790	26.31
		42	0.14	32.820	26.37
		44	0.05	32.830	26.38
		50	0.55	32.840	26.41
		52	0.68	32.910	26.47
		55	0.77	32.870	26.45
		61	1.18	33.000	26.56
		63	1.22	33.070	26.62
		77	0.85	33.270	26.77
		80	0.77	33.380	26.86
		83	0.26	34.170	27.47
		86	2.46	33.970	27.13
		88	2.77	33.980	27.12
		91	2.63	33.570	26.80
		94	1.90	33.630	26.91
		101	1.38	33.650	26.97
		107	1.54	33.770	27.04
		113	1.55	33.770	27.05
		116	1.45	33.710	27.01
		118	1.17	33.670	26.99
		121	1.06	33.800	27.11
		124	1.23	33.920	27.19
		127	1.64	33.960	27.19
		130	2.10	33.990	27.18
		134	2.05	33.820	27.05
		136	1.92	34.080	27.26
		139	2.31	34.100	27.25
		142	2.52	34.090	27.23
		144	2.37	34.020	27.18
		150	2.27	34.070	27.23
		153	2.24	34.080	27.24
		156	2.21	34.110	27.27
		162	2.56	34.210	27.32
		171	2.88	34.210	27.29
		174	2.65	34.190	27.30
		177	2.68	34.270	27.35
		180	2.52	34.170	27.29
		182	1.98	33.920	27.14
		185	1.71	34.260	27.43
		197	1.85	34.300	27.45
		203	2.02	34.320	27.45
		206	2.08	34.340	27.46
		222	2.65	34.460	27.51
		228	2.69	34.490	27.53
		230	2.72	34.500	27.54
		236	2.98	34.610	27.60
		242	3.42	34.660	27.60
		253	3.46	34.660	27.60
		255	3.48	34.650	27.59

.	276	3.73	34.730	27.62
.	279	3.78	34.710	27.61
.	303	3.95	34.760	27.62
.	307	3.97	34.760	27.62
.	326	4.05	34.770	27.62
.	329	4.05	34.760	27.62
.	350	4.09	34.780	27.63
.	354	4.10	34.790	27.63
.	375	4.19	34.840	27.67
.	380	4.25	34.860	27.67
.	403	4.38	34.880	27.68
.	407	4.39	34.890	27.68
.	456	4.47	34.920	27.69
.	464	4.48	34.920	27.69
.	508	4.49	34.930	27.70
.	516	4.49	34.930	27.70
.	560	4.45	34.930	27.71
.	568	4.44	34.930	27.71
.	605	4.42	34.940	27.72
.	614	4.42	34.940	27.72
.	651	4.37	34.930	27.72
.	660	4.36	34.940	27.72
.	706	4.23	34.930	27.73
.	716	4.20	34.930	27.73
.	754	4.17	34.920	27.73
.	762	4.15	34.930	27.74
.	808	4.06	34.920	27.74
.	817	4.05	34.920	27.74
.	853	4.02	34.920	27.75
.	863	4.02	34.920	27.74
.	905	3.99	34.920	27.75
.	913	3.99	34.910	27.74
.	952	3.97	34.910	27.75
.	961	3.97	34.910	27.74
.	1003	3.95	34.910	27.75
.	1008	3.95	34.910	27.75

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
45 03.9N	048 08.7W	05	22	20.2	1971	1096A	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
2662	13	2	2		Y1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT	
15	19	235	11.9	11.5		970.962	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
20.2		7	2.86	32.540	25.96		
.		10	2.00	32.610	26.08		
00.8		13	1.47	32.690	26.19		
.		21	0.82	32.780	26.30		
.		23	0.73	32.800	26.32		
.		32	0.40	32.790	26.33		
.		35	0.08	32.730	26.31		
.		38	0.74	32.820	26.40		
.		40	1.08	32.930	26.50		
.		51	1.24	33.070	26.63		
.		54	1.26	33.110	26.65		
.		58	1.20	33.210	26.74		
.		60	1.03	33.280	26.79		
.		69	0.35	33.430	26.88		
.		71	0.33	33.380	26.84		
.		74	0.09	34.000	27.33		
.		77	1.00	33.550	26.90		
.		80	0.84	33.680	27.02		
.		82	1.43	33.830	27.10		
.		91	1.74	33.850	27.10		
.		94	2.40	34.110	27.25		
.		97	2.55	33.700	26.91		
.		100	1.11	33.480	26.85		
.		103	0.64	33.790	27.12		
.		109	0.61	33.860	27.18		
.		114	0.97	34.040	27.30		
.		117	1.91	34.150	27.32		
.		120	1.64	33.750	27.02		
.		123	1.13	33.860	27.15		
.		125	1.07	33.990	27.26		
.		128	1.24	33.980	27.24		
.		131	1.25	34.060	27.30		
.		133	1.37	34.080	27.31		
.		137	1.64	34.220	27.40		
.		139	2.08	34.320	27.45		
.		142	2.41	34.210	27.33		
.		145	2.57	34.380	27.45		
.		147	2.97	34.470	27.49		
.		150	3.69	34.550	27.48		
.		153	3.84	34.470	27.41		
.		158	3.85	34.420	27.36		
.		161	3.46	34.170	27.21		
.		163	2.86	34.380	27.43		
.		169	3.28	34.480	27.47		
.		177	3.28	34.430	27.43		
.		180	3.30	34.420	27.42		
.		183	3.28	34.430	27.43		
.		185	3.10	34.380	27.40		
.		192	2.56	34.330	27.42		
.		200	2.50	34.410	27.49		
.		203	2.49	34.410	27.49		
.		225	2.77	34.510	27.54		
.		228	2.81	34.540	27.56		
.		236	2.93	34.560	27.56		
.		239	3.03	34.580	27.57		
.		242	3.23	34.710	27.65		
.		245	3.54	34.660	27.58		
.		247	3.56	34.630	27.56		

.	250	3.76	34.840	27.71
.	253	4.95	35.170	27.84
.	256	5.35	34.980	27.65
.	276	5.21	34.900	27.60
.	280	5.27	34.950	27.63
.	300	5.75	35.020	27.62
.	304	5.69	35.010	27.62
.	326	5.44	34.930	27.59
.	340	4.85	34.920	27.65
.	350	4.84	34.940	27.67
.	355	4.84	34.940	27.67
.	359	4.87	34.970	27.69
.	378	5.04	34.990	27.68
.	382	5.03	34.990	27.69
.	401	4.97	34.980	27.69
.	405	4.95	34.980	27.69
.	456	4.87	35.000	27.72
.	466	4.87	35.000	27.72
.	506	4.83	35.010	27.73
.	516	4.79	35.000	27.73
.	558	4.58	34.980	27.74
.	568	4.56	34.980	27.74
.	610	4.49	34.980	27.74
.	621	4.45	34.970	27.74
.	652	4.41	34.980	27.75
.	663	4.44	34.990	27.75
.	704	4.33	34.970	27.76
.	715	4.31	34.980	27.76
.	756	4.28	34.980	27.76
.	765	4.23	34.960	27.76
.	806	4.16	34.960	27.76
.	816	4.15	34.970	27.77
.	858	4.18	34.980	27.78
.	868	4.21	34.980	27.77
.	905	4.11	34.960	27.77
.	913	4.10	34.960	27.77
.	955	4.02	34.950	27.77
.	961	4.01	34.950	27.77
.	1009	3.93	34.940	27.77
.	1021	3.92	34.940	27.77

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 52.6N	047 37.8W	05	22	23.1	1971	10969	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD COVS	
	DIR	HGT	PER	SEA		TYPE	AMT.
3452	15	3	2		1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DN HT	
15	20	233	13.7	13.1			971.153
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
23.1		0	11.21	32.890	25.12		
.		5	11.18	32.890	25.13		
00.7		8	10.99	32.730	25.03		
.		11	9.16	32.390	25.08		
.		14	7.74	32.790	25.60		
.		16	6.86	33.160	26.01		
.		20	7.23	33.680	26.37		
.		22	7.59	33.730	26.36		
.		25	8.02	33.870	26.41		
.		27	6.80	33.000	25.90		
.		30	5.39	33.490	26.46		
.		33	6.60	34.380	27.01		
.		35	8.17	34.550	26.92		
.		38	8.62	34.490	26.80		
.		41	8.54	34.240	26.62		
.		43	8.47	34.470	26.81		
.		47	8.95	34.790	26.98		
.		49	9.55	35.120	27.14		
.		52	10.29	35.080	26.99		
.		55	10.55	35.060	26.92		
.		58	10.67	35.100	26.94		
.		61	11.04	35.260	26.99		
.		63	11.23	35.260	26.96		
.		66	11.31	35.210	26.91		
.		68	11.12	35.110	26.86		
.		72	10.84	35.080	26.89		
.		75	10.71	35.050	26.89		
.		78	10.60	35.020	26.89		
.		80	10.31	34.950	26.88		
.		83	10.13	34.970	26.93		
.		86	9.84	34.870	26.90		
.		89	9.68	34.890	26.94		
.		91	9.64	34.900	26.96		
.		94	9.49	34.790	26.89		
.		97	9.21	34.800	26.95		
.		99	9.12	34.770	26.94		
.		102	8.85	34.710	26.94		
.		106	8.46	34.480	26.82		
.		108	7.83	34.600	27.01		
.		111	7.76	34.570	26.99		
.		114	8.03	34.890	27.21		
.		117	8.32	34.780	27.08		
.		120	8.31	34.770	27.07		
.		122	8.58	34.990	27.20		
.		125	9.07	35.040	27.16		
.		128	8.97	34.840	27.02		
.		134	8.86	35.000	27.16		
.		137	9.05	35.010	27.14		
.		151	9.09	35.010	27.13		
.		154	9.05	34.940	27.09		
.		157	8.65	34.720	26.98		
.		160	8.35	34.880	27.15		
.		163	8.36	34.870	27.14		
.		166	8.26	34.890	27.18		
.		177	8.40	34.970	27.21		
.		180	8.37	34.940	27.19		
.		183	8.40	35.010	27.24		

186	8.35	34.900	27.17
188	8.13	34.890	27.19
191	8.23	35.070	27.32
194	8.10	34.680	27.03
196	7.36	34.770	27.21
199	7.31	34.770	27.22
202	7.16	34.760	27.23
204	7.11	34.720	27.21
212	6.61	34.710	27.27
215	6.68	34.750	27.29
221	6.51	34.720	27.29
224	6.62	34.750	27.30
227	6.29	34.550	27.19
229	5.78	34.400	27.13
232	5.46	34.560	27.30
235	5.38	34.490	27.25
238	5.18	34.510	27.29
242	4.96	34.370	27.22
245	4.54	34.430	27.30
247	4.45	34.470	27.34
250	4.32	34.330	27.25
253	3.93	34.370	27.32
255	3.99	34.500	27.41
270	4.75	34.620	27.43
273	4.72	34.620	27.43
277	4.88	34.730	27.50
279	5.09	34.730	27.48
302	5.61	34.800	27.47
304	5.59	34.810	27.48
315	5.66	34.890	27.53
324	6.51	35.130	27.62
327	6.71	35.050	27.53
330	6.71	35.040	27.51
337	6.67	35.020	27.50
347	5.86	34.930	27.46
351	5.68	34.880	27.52
354	5.65	34.920	27.55
361	5.78	34.920	27.54
376	5.41	34.880	27.56
380	5.36	34.890	27.57
388	5.33	34.870	27.56
402	5.24	34.940	27.62
406	5.38	34.970	27.63
451	5.60	35.020	27.64
455	5.54	35.010	27.64
467	5.36	35.000	27.66
501	5.36	34.990	27.65
506	5.18	34.940	27.63
551	4.83	34.980	27.70
555	4.86	34.990	27.71
604	4.71	34.970	27.71
608	4.69	34.960	27.71
653	4.80	35.000	27.73
657	4.80	35.000	27.73
700	4.87	35.020	27.73
706	4.84	35.030	27.74
752	4.69	35.010	27.74
761	4.66	35.010	27.75
802	4.56	35.000	27.75
809	4.56	35.000	27.75
857	4.47	34.990	27.75
867	4.44	34.990	27.76
914	4.36	34.980	27.76
929	4.34	34.990	27.77
959	4.32	34.990	27.77
974	4.30	34.980	27.76
1005	4.23	34.970	27.77
1018	4.20	34.970	27.77

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME			YEAR	STATION NUMBER
				(GMT)				
				MO.	DAY	HR.		
44 07.8N		046 39.2W		05	23	08.1	1971	10970
DEPTH TO BOTTOM		WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
		DIR	HGT	PER	SFA		TYPE	AMT.
3786		15	3	2		X6	0	6
WIND			BARO- METER (MRS)		AIR TEMP DEG C			
DIR	SPEED	DRY BULB			WET BULB	VIS CODE	DYN HT	
18	20		225	15.0	14.7			971.197
MESSENGER TIME		CAST NO.		DEPTH	TEMP	SAL	SIG-T	
08.1				2	9.52	33.180	25.63	
				4	9.53	33.220	25.66	
00.9				7	11.26	35.280	26.97	
.				10	15.72	36.100	26.68	
.				12	16.31	35.940	26.42	
.				15	16.38	35.940	26.41	
.				20	16.27	35.940	26.43	
.				23	16.20	35.930	26.44	
.				26	16.10	35.930	26.46	
.				31	15.67	35.900	26.54	
.				34	15.63	35.890	26.54	
.				36	15.49	35.860	26.55	
.				39	15.19	35.820	26.58	
.				53	14.38	35.760	26.71	
.				56	14.40	35.860	26.78	
.				59	14.46	35.860	26.77	
.				61	14.42	35.830	26.76	
.				77	13.90	35.710	26.78	
.				80	13.80	35.700	26.79	
.				102	13.44	35.660	26.84	
.				105	13.42	35.660	26.84	
.				120	13.23	35.600	26.83	
.				122	13.04	35.530	26.81	
.				125	12.96	35.580	26.87	
.				129	12.95	35.570	26.86	
.				152	12.53	35.530	26.92	
.				155	12.59	35.530	26.90	
.				160	12.68	35.590	26.94	
.				162	12.68	35.500	26.87	
.				168	12.62	35.530	26.90	
.				172	12.46	35.450	26.87	
.				174	12.14	35.340	26.85	
.				178	12.02	35.420	26.93	
.				180	12.03	35.440	26.95	
.				184	12.05	35.420	26.92	
.				188	11.89	35.150	26.75	
.				193	10.27	34.840	26.81	
.				202	9.87	34.980	26.98	
.				208	9.85	34.980	26.99	
.				212	9.75	34.850	26.90	
.				217	8.99	34.740	26.94	
.				222	9.04	34.970	27.11	
.				227	9.57	34.990	27.04	
.				232	9.95	35.190	27.13	
.				237	10.97	35.530	27.22	
.				242	11.61	35.460	27.04	
.				247	11.37	35.360	27.01	
.				252	11.20	35.400	27.07	
.				258	11.18	35.380	27.06	
.				266	10.99	35.360	27.08	
.				276	10.65	35.290	27.09	
.				301	10.14	35.270	27.16	
.				310	9.82	35.250	27.20	
.				333	9.34	35.190	27.24	
.				355	8.85	35.170	27.30	
.				365	8.69	35.150	27.31	

.	403	7.64	35.030	27.17
.	413	7.47	35.010	27.19
.	423	7.24	34.970	27.38
.	433	5.99	34.690	27.33
.	444	5.14	34.700	27.45
.	455	5.08	34.700	27.46
.	465	4.76	34.710	27.50
.	496	5.87	34.940	27.55
.	508	5.81	34.930	27.55
.	522	5.44	34.890	27.56
.	544	5.06	34.860	27.58
.	565	4.99	34.900	27.62
.	585	5.07	34.940	27.64
.	606	4.95	34.940	27.66
.	625	4.92	34.960	27.68
.	665	4.88	34.990	27.70
.	685	4.86	34.990	27.71
.	705	4.72	34.970	27.71
.	763	4.66	34.990	27.73
.	783	4.66	34.990	27.73
.	802	4.62	34.990	27.73
.	821	4.58	34.990	27.74
.	861	4.52	34.990	27.75
.	883	4.53	35.000	27.75
.	905	4.48	34.990	27.75
.	926	4.36	34.970	27.75
.	969	4.35	34.980	27.76
.	989	4.34	34.980	27.76
.	1008	4.29	34.980	27.76
.	1026	4.29	34.980	27.76

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 27.2N	047 19.4W	05	23	13.4	1971	10971	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3830	14	3	2		X2	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
17	23	215	14.2	13.9			971.064
MESSFNGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
13.4		3	11.05	32.750	25.04	214	4.86 34.560 27.37
.		6	11.05	32.760	25.05	226	4.45 34.470 27.34
00.7		9	10.94	32.710	25.03	229	4.30 34.430 27.33
.		11	10.71	32.670	25.04	231	4.09 34.480 27.39
.		14	10.34	32.680	25.11	237	4.05 34.520 27.42
.		17	8.61	32.150	24.97	240	4.13 34.580 27.46
.		19	6.74	32.870	25.80	246	4.51 34.680 27.50
.		22	6.53	32.810	25.79	252	4.82 34.740 27.52
.		25	5.62	32.820	25.90	256	4.91 34.720 27.49
.		31	5.20	32.750	25.90	276	5.20 34.780 27.50
.		34	4.44	32.760	25.99	280	5.18 34.770 27.50
.		36	3.78	32.760	26.05	294	5.18 34.860 27.57
.		39	3.01	32.910	26.24	299	5.53 34.900 27.56
.		42	2.73	32.990	26.33	302	5.54 34.860 27.53
.		44	2.68	33.120	26.44	305	5.48 34.850 27.53
.		47	2.68	33.110	26.43	307	5.44 34.850 27.53
.		50	2.23	32.800	26.22	329	4.94 34.820 27.56
.		53	1.83	33.170	26.54	333	4.89 34.820 27.57
.		55	2.39	33.540	26.80	352	4.79 34.860 27.61
.		58	3.21	33.630	26.80	355	4.85 34.870 27.62
.		61	3.51	33.590	26.74	377	5.03 34.910 27.62
.		63	3.65	33.540	26.68	382	5.04 34.920 27.63
.		70	3.20	33.540	26.73	402	5.08 34.940 27.64
.		72	3.27	33.660	26.82	415	5.53 35.060 27.68
.		75	2.94	33.130	26.58	439	5.08 34.940 27.64
.		78	2.05	33.530	26.81	448	5.01 34.990 27.69
.		80	1.82	33.550	26.85	452	5.20 35.100 27.76
.		83	2.23	33.950	27.14	457	5.41 35.050 27.69
.		86	2.72	33.840	27.01	501	4.96 34.970 27.68
.		92	2.56	33.780	26.97	506	4.95 34.980 27.69
.		95	2.62	33.890	27.06	552	4.72 34.960 27.70
.		101	2.53	33.870	27.05	557	4.71 34.960 27.70
.		109	3.40	34.240	27.27	602	4.55 34.950 27.71
.		112	3.78	34.150	27.16	607	4.54 34.950 27.71
.		118	3.73	34.110	27.13	651	4.52 34.980 27.74
.		121	3.90	34.200	27.18	656	4.63 35.010 27.75
.		124	4.21	34.240	27.19	700	4.48 34.960 27.72
.		127	4.08	34.090	27.08	705	4.45 34.950 27.73
.		130	4.06	34.310	27.25	758	4.40 34.960 27.73
.		133	4.49	34.360	27.25	801	4.37 34.980 27.75
.		135	4.56	34.320	27.21	805	4.40 34.970 27.75
.		138	4.81	34.530	27.35	857	4.36 34.970 27.75
.		141	4.93	34.380	27.22	901	4.28 34.960 27.75
.		147	4.69	34.300	27.18	906	4.26 34.950 27.75
.		151	4.22	34.180	27.14	956	4.19 34.960 27.76
.		153	3.64	34.210	27.22	1004	4.11 34.950 27.76
.		156	3.50	34.230	27.25		
.		170	4.05	34.400	27.33		
.		176	4.18	34.440	27.35		
.		179	4.28	34.450	27.34		
.		182	4.38	34.520	27.39		
.		195	4.87	34.540	27.35		
.		198	4.62	34.410	27.28		
.		201	4.36	34.500	27.37		
.		203	4.47	34.540	27.40		
.		209	4.62	34.640	27.46		
.		212	4.84	34.600	27.40		

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 23.7N	047 46.3W	05	23	18.0	1971	10972	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3596	19	3	2		X4	0	6
WIND		BARO-METER (MM Hg)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
19	20	200	12.4	12.2		971.091	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
18.0		5	10.99	32.900	25.17
		8	10.99	32.890	25.16
00.7		10	10.60	32.800	25.16
		13	8.98	32.940	25.53
		16	8.98	33.530	26.00
		18	9.42	33.530	25.93
		21	9.41	33.950	26.25
		24	9.29	33.510	25.93
		27	7.67	33.580	26.23
		30	8.19	33.960	26.45
		33	8.27	33.950	26.43
		36	8.59	33.820	26.28
		38	6.78	33.160	26.02
		41	6.61	34.190	26.86
		43	8.13	34.360	26.78
		46	8.24	34.200	26.63
		49	7.96	33.920	26.46
		52	7.23	33.940	26.58
		54	7.00	33.950	26.62
		58	5.91	33.830	26.67
		60	5.60	33.560	26.49
		63	4.27	33.730	26.78
		68	4.06	33.770	26.83
		71	4.20	34.450	27.35
		74	6.03	34.580	27.25
		76	6.72	34.330	26.95
		79	6.68	34.440	27.05
		82	7.16	34.590	27.10
		85	7.37	34.510	27.01
		87	7.33	34.480	26.99
		90	7.06	34.280	26.87
		92	6.63	34.360	26.99
		96	6.73	34.500	27.08
		99	6.79	34.420	27.02
		102	6.72	34.460	27.06
		106	6.94	34.550	27.10
		109	7.12	34.580	27.10
		114	7.21	34.560	27.07
		117	7.05	34.470	27.02
		120	6.62	34.200	26.87
		123	5.75	34.050	26.86
		125	5.05	34.170	27.04
		128	4.79	34.150	27.05
		131	4.49	34.100	27.05
		134	4.08	34.090	27.08
		137	3.91	34.150	27.15
		140	3.92	34.290	27.26
		143	5.24	35.150	27.79
		145	5.96	34.610	27.28
		151	6.01	34.560	27.23
		154	6.50	34.910	27.44
		157	7.07	34.810	27.28
		163	7.24	34.840	27.28
		178	7.20	34.840	27.29
		181	7.22	34.840	27.29
		201	6.94	34.740	27.25
		204	6.77	34.760	27.29

	207	6.73	34.760	27.29
	210	6.11	34.500	27.17
	213	5.90	34.660	27.32
	216	5.89	34.650	27.31
	219	5.77	34.560	27.26
	228	5.71	34.670	27.35
	232	5.72	34.670	27.36
	235	5.76	34.880	27.52
	238	6.77	35.110	27.56
	241	6.93	34.940	27.41
	251	6.88	34.920	27.39
	254	6.86	34.920	27.40
	258	6.62	34.740	27.29
	261	6.33	34.850	27.42
	273	6.46	34.890	27.43
	276	6.38	34.870	27.43
	279	6.22	34.720	27.33
	282	5.93	34.790	27.42
	285	5.87	34.830	27.46
	288	6.00	34.940	27.53
	291	6.30	35.110	27.62
	294	6.48	34.980	27.49
	302	6.50	34.980	27.50
	305	6.47	34.950	27.48
	313	6.21	34.950	27.51
	317	6.25	35.010	27.56
	320	6.37	35.010	27.54
	327	6.35	34.930	27.48
	330	6.22	34.950	27.51
	336	6.11	34.930	27.51
	342	5.83	34.900	27.52
	345	5.90	35.060	27.64
	348	6.14	35.040	27.59
	351	6.20	35.030	27.57
	354	6.21	35.020	27.56
	377	5.73	34.900	27.53
	381	5.88	35.080	27.66
	384	6.08	35.060	27.62
	387	5.93	34.870	27.48
	391	5.75	35.010	27.62
	394	5.82	35.070	27.66
	397	5.98	35.060	27.63
	402	5.95	34.970	27.56
	405	5.77	34.980	27.59
	423	5.65	35.000	27.62
	430	5.45	34.990	27.64
	451	5.52	35.000	27.63
	454	5.53	35.030	27.66
	503	5.30	34.980	27.65
	508	5.21	34.970	27.65
	554	4.87	34.960	27.68
	558	4.87	34.960	27.69
	602	4.75	34.960	27.70
	610	4.72	34.960	27.70
	659	4.69	34.970	27.71
	667	4.66	34.960	27.71
	706	4.54	34.960	27.72
	714	4.55	34.970	27.73
	754	4.49	34.950	27.72
	766	4.49	34.960	27.72
	805	4.40	34.940	27.72
	824	4.41	34.960	27.74
	863	4.42	34.960	27.73
	882	4.38	34.960	27.74
	901	4.36	34.960	27.74
	921	4.32	34.950	27.74
	959	4.21	34.940	27.74
	977	4.19	34.940	27.75
	1017	4.10	34.930	27.74
	1034	4.09	34.930	27.74

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 27.9N	048 12.5W	05	23	22.9	1971	10973	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SFA		TYPE	AMT.
335A	17	3	3		X4	0	6
WIND		BARO-METER (MM HG)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
15	15	20.9	11.2	11.2			970.999
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
22.9		4	10.26	32.990	25.36		
.		9	10.22	32.970	25.35		
00.7		11	9.69	32.540	25.11		
.		15	6.85	32.460	25.46		
.		18	5.82	33.040	26.06		
.		21	5.47	32.990	26.06		
.		24	5.02	33.020	26.13		
.		27	4.74	33.140	26.26		
.		29	4.62	32.910	26.08		
.		32	3.51	32.840	26.14		
.		35	2.97	33.020	26.34		
.		38	2.92	33.170	26.46		
.		43	3.06	33.390	26.62		
.		46	3.02	33.420	26.65		
.		52	3.13	33.480	26.69		
.		54	3.29	33.840	26.96		
.		57	4.52	34.230	27.14		
.		60	5.95	34.190	26.94		
.		63	6.26	34.150	26.87		
.		66	6.06	33.790	26.61		
.		68	5.08	33.850	26.78		
.		71	4.78	33.700	26.70		
.		74	4.15	33.740	26.79		
.		77	4.03	33.910	26.94		
.		80	4.30	34.090	27.06		
.		83	4.88	34.120	27.02		
.		89	4.98	34.170	27.04		
.		92	5.12	34.020	26.91		
.		95	4.53	34.070	27.02		
.		98	4.12	34.090	27.07		
.		100	4.02	34.120	27.11		
.		106	4.11	34.300	27.24		
.		109	4.93	34.970	27.68		
.		112	5.88	34.530	27.22		
.		126	6.22	34.650	27.27		
.		129	6.57	34.690	27.26		
.		131	6.61	34.600	27.18		
.		137	6.29	34.570	27.20		
.		139	6.04	34.320	27.04		
.		142	5.75	34.530	27.24		
.		145	5.71	34.440	27.17		
.		148	5.39	34.390	27.17		
.		151	5.24	34.490	27.27		
.		155	5.27	34.450	27.23		
.		157	5.07	34.320	27.16		
.		160	4.73	34.430	27.28		
.		163	4.65	34.310	27.20		
.		166	4.20	34.210	27.17		
.		169	3.82	34.300	27.27		
.		172	3.82	34.380	27.34		
.		175	3.94	34.490	27.42		
.		178	4.25	34.520	27.40		
.		185	4.46	34.610	27.46		
.		189	4.82	34.640	27.43		
.		191	4.91	34.580	27.38		
.		200	4.93	34.600	27.39		
.		203	4.99	34.690	27.45		
.		209	5.11	34.660	27.42		

.	212	5.33	34.850	27.54
.	215	5.71	34.840	27.49
.	218	5.78	34.800	27.45
.	221	5.57	34.610	27.33
.	224	5.00	34.500	27.30
.	226	4.71	34.660	27.47
.	229	4.77	34.700	27.49
.	238	4.91	34.730	27.50
.	250	4.89	34.750	27.52
.	253	4.91	34.770	27.53
.	256	4.94	34.820	27.56
.	277	5.20	34.840	27.55
.	280	5.19	34.840	27.55
.	301	5.22	34.900	27.59
.	304	5.24	34.910	27.60
.	309	5.34	34.920	27.60
.	326	5.38	34.960	27.63
.	329	5.46	35.030	27.67
.	340	5.66	35.000	27.62
.	346	5.41	35.010	27.66
.	353	5.49	34.980	27.62
.	355	5.35	34.960	27.62
.	362	5.20	34.980	27.66
.	377	5.25	34.980	27.65
.	380	5.21	34.970	27.65
.	395	5.25	35.080	27.73
.	398	5.42	35.080	27.71
.	401	5.50	35.070	27.70
.	405	5.52	35.050	27.68
.	407	5.52	35.070	27.69
.	413	5.65	35.090	27.69
.	417	5.61	35.040	27.66
.	423	5.32	35.030	27.68
.	427	5.35	35.040	27.69
.	431	5.50	35.100	27.72
.	454	5.49	35.080	27.71
.	458	5.46	35.080	27.71
.	502	5.26	35.070	27.72
.	507	5.25	35.070	27.73
.	551	5.15	35.070	27.74
.	554	5.14	35.070	27.74
.	601	4.90	35.050	27.75
.	607	4.88	35.050	27.75
.	650	4.76	35.040	27.76
.	653	4.75	35.050	27.77
.	701	4.57	35.020	27.77
.	705	4.55	35.030	27.77
.	754	4.36	35.000	27.77
.	769	4.35	35.000	27.77
.	812	4.28	35.000	27.78
.	826	4.28	35.000	27.78
.	855	4.23	34.990	27.78
.	870	4.21	34.980	27.78
.	900	4.16	34.980	27.78
.	921	4.14	34.990	27.78
.	969	4.14	34.990	27.79
.	993	4.16	34.990	27.79
.	1018	4.15	34.990	27.79
.	1038	4.11	34.990	27.79

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 33.04	049 31.4W	05	24	02.1	1971	10974	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
2794	20	3	2		14	0	6
WIND		RAIN-METER (MM)		AIR TEMP DEG C			
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	WYNT
1A	11	215		10.0	10.0		971.000

WESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
02.1		6	6.71	32.840	25.80
.		9	6.51	32.820	25.79
00.7		11	5.70	32.620	25.74
.		14	3.36	32.210	25.66
.		16	2.33	32.910	26.30
.		19	2.31	32.780	26.20
.		22	1.73	32.890	26.33
.		25	1.82	32.890	26.32
.		28	1.49	32.770	26.21
.		31	1.19	32.850	26.33
.		34	1.03	32.830	26.33
.		37	0.74	32.880	26.38
.		40	0.36	32.780	26.32
.		43	0.09	32.860	26.41
.		45	0.65	32.910	26.47
.		48	0.16	33.450	26.89
.		51	2.08	33.740	26.98
.		53	3.60	33.900	26.98
.		56	4.53	33.780	26.79
.		59	4.94	33.890	26.83
.		63	5.27	33.850	26.76
.		65	4.49	33.500	26.57
.		68	4.22	33.940	26.95
.		70	4.26	33.850	26.87
.		73	4.12	33.860	26.89
.		76	4.14	33.870	26.90
.		78	4.01	33.880	26.92
.		81	3.97	33.940	26.98
.		90	4.49	34.170	27.10
.		93	4.99	34.340	27.18
.		95	5.08	34.220	27.08
.		101	4.77	34.170	27.07
.		104	4.94	34.530	27.33
.		108	5.58	34.510	27.24
.		110	5.79	34.450	27.17
.		114	5.50	34.160	26.97
.		119	4.96	34.440	27.26
.		122	5.16	34.410	27.21
.		125	5.15	34.430	27.23
.		128	4.89	34.230	27.10
.		132	4.47	34.400	27.29
.		135	4.65	34.470	27.32
.		138	4.72	34.460	27.30
.		141	4.69	34.450	27.30
.		155	4.69	34.520	27.35
.		160	4.71	34.540	27.37
.		165	4.82	34.600	27.40
.		169	5.07	34.680	27.44
.		174	5.16	34.610	27.38
.		179	5.05	34.650	27.42
.		184	5.11	34.650	27.41
.		209	5.22	34.770	27.49
.		229	5.80	34.900	27.52
.		238	5.66	34.890	27.53
.		250	5.54	34.850	27.52
.		275	5.69	34.950	27.57
.		294	5.68	34.980	27.61
.		313	5.34	34.930	27.60
.		376	5.28	34.990	27.66
.		401	5.10	34.990	27.68
.		451	5.14	35.020	27.70
.		476	5.09	35.040	27.72
.		502	4.98	35.030	27.73

.	527	4.94	35.040	27.74
.	551	4.92	35.030	27.74
.	576	4.85	35.030	27.74
.	600	4.78	35.020	27.74
.	625	4.72	35.020	27.75
.	674	4.60	35.010	27.76
.	699	4.54	35.010	27.76
.	752	4.41	35.000	27.76
.	778	4.34	34.990	27.77
.	804	4.26	34.980	27.77
.	830	4.19	34.970	27.77
.	857	4.16	34.970	27.77
.	883	4.13	34.970	27.77
.	908	4.13	34.970	27.77
.	932	4.10	34.970	27.78
.	956	4.08	34.970	27.78
.	982	4.04	34.960	27.78
.	1009	4.01	34.960	27.78

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 33.5N	048 40.5W	05	24	04.1	1971	10975	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1891	18	3	2		X4	0	6
WIND		BARO-METER (MRS)		AIR TEMP DEG C			
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT
20	12	210		08.1	08.1		971.053
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
04.1		7	4.98	32.680	25.87		
.		12	4.95	32.640	25.84		
00.6		15	4.49	32.450	25.74		
.		18	3.19	32.360	25.79		
.		21	1.89	32.580	26.07		
.		32	0.93	32.760	26.28		
.		34	0.75	32.750	26.28		
.		37	0.60	32.800	26.33		
.		51	0.09	32.810	26.36		
.		54	0.09	32.790	26.36		
.		56	0.35	32.790	26.37		
.		63	1.06	32.910	26.49		
.		77	1.30	33.070	26.62		
.		80	1.32	33.100	26.65		
.		86	1.24	33.200	26.73		
.		89	1.10	33.330	26.83		
.		95	0.65	33.420	26.88		
.		97	0.55	33.370	26.84		
.		100	0.55	33.340	26.82		
.		106	0.51	33.480	26.93		
.		124	0.13	33.630	27.03		
.		126	0.09	33.650	27.04		
.		129	0.18	33.650	27.03		
.		132	0.27	33.630	27.01		
.		141	0.04	33.640	27.03		
.		144	0.18	33.790	27.14		
.		147	0.48	33.800	27.14		
.		150	0.59	33.760	27.10		
.		153	0.57	33.790	27.13		
.		175	0.77	33.890	27.19		
.		178	0.79	33.900	27.20		
.		201	1.26	34.040	27.29		
.		206	1.24	34.090	27.32		
.		225	1.70	34.210	27.39		
.		259	2.32	34.400	27.49		
.		270	2.44	34.440	27.51		
.		281	2.64	34.490	27.53		
.		292	2.88	34.560	27.57		
.		305	3.06	34.580	27.57		
.		318	3.69	34.780	27.67		
.		332	4.46	34.780	27.59		
.		345	4.65	34.960	27.71		
.		357	5.02	34.930	27.64		
.		369	5.05	34.940	27.64		
.		405	5.10	34.960	27.66		
.		429	5.08	34.980	27.67		
.		455	5.09	35.000	27.69		
.		484	5.06	35.000	27.70		
.		512	4.90	34.980	27.70		
.		570	4.80	35.000	27.72		
.		600	4.75	34.990	27.72		
.		657	4.53	34.970	27.73		
.		713	4.35	34.960	27.74		
.		742	4.33	34.950	27.74		
.		770	4.28	34.950	27.74		
.		799	4.21	34.950	27.75		
.		854	4.04	34.930	27.75		
.		882	3.98	34.930	27.75		
.		909	3.96	34.930	27.76		
.		937	3.96	34.930	27.76		
.		965	3.98	34.930	27.76		
.		992	3.99	34.930	27.76		
.		1020	3.98	34.930	27.76		

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 34.3'	048 56.5W	05	24	06.6	1971	10976	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1111	20	3	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
18	16	205	08.7	08.1		971.099	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
06.6		7	4.50	32.640	25.89		
		10	4.47	32.640	25.89		
00.7		12	4.33	32.450	25.75		
		15	2.82	32.350	25.81		
		21	1.49	32.630	26.14		
		23	1.39	32.670	26.18		
		26	1.31	32.650	26.17		
		31	0.94	32.670	26.20		
		34	0.74	32.690	26.23		
		36	0.61	32.710	26.26		
		42	0.04	32.680	26.26		
		48	0.66	32.790	26.38		
		50	0.79	32.780	26.38		
		53	0.97	32.840	26.43		
		72	1.36	32.950	26.53		
		78	1.32	33.010	26.58		
		80	1.28	33.090	26.64		
		83	1.09	33.130	26.67		
		102	0.49	33.290	26.78		
		105	0.46	33.320	26.79		
		128	0.13	33.400	26.85		
		130	0.10	33.410	26.86		
		151	0.01	33.480	26.91		
		153	0.06	33.510	26.93		
		160	0.27	33.600	26.99		
		175	0.51	33.730	27.08		
		178	0.56	33.730	27.08		
		202	0.82	33.840	27.15		
		206	0.85	33.840	27.14		
		227	0.93	33.910	27.20		
		229	1.00	34.000	27.26		
		252	1.54	34.100	27.31		
		256	1.60	34.140	27.34		
		270	2.32	34.360	27.46		
		273	2.50	34.290	27.39		
		276	2.47	34.280	27.38		
		279	2.43	34.270	27.38		
		303	2.41	34.410	27.49		
		306	2.48	34.420	27.49		
		317	2.61	34.550	27.59		
		320	2.80	34.540	27.66		
		326	3.01	34.550	27.55		
		329	3.05	34.550	27.54		
		352	3.50	34.660	27.59		
		354	3.52	34.670	27.60		
		370	3.70	34.710	27.61		
		392	3.74	34.720	27.61		
		406	3.84	34.740	27.62		
		423	4.07	34.830	27.67		
		462	4.41	34.870	27.67		
		476	4.44	34.880	27.67		
		508	4.46	34.890	27.67		
		535	4.51	34.910	27.69		
		563	4.51	34.920	27.69		
		590	4.51	34.930	27.70		
		618	4.49	34.930	27.70		
		647	4.47	34.930	27.70		
		701	4.42	34.940	27.71		
		730	4.40	34.930	27.71		
		756	4.38	34.940	27.72		
		783	4.34	34.940	27.72		
		810	4.38	34.940	27.72		
		837	4.30	34.920	27.72		
		863	4.27	34.910	27.71		
		890	4.25	34.920	27.72		
		917	4.20	34.920	27.71		
		1000	4.11	34.910	27.72		

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-S245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 35.2N	049 00.3W	05	24	02.1	1971	10977	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0430	17	2	2		14	0	A
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
15	16	200	08.1	07.9			971.104

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
08.1		5	4.89	32.520	25.75
.		13	4.48	32.580	25.84
08.4		15	4.32	32.570	25.85
.		18	3.91	32.540	25.86
.		21	3.29	32.470	25.87
.		24	2.26	32.520	26.00
.		26	1.60	32.680	26.17
.		29	1.34	32.710	26.21
.		31	1.27	32.800	26.29
.		34	1.28	32.770	26.26
.		40	0.95	32.740	26.26
.		48	0.03	32.770	26.33
.		51	0.21	32.820	26.38
.		54	0.34	32.830	26.40
.		75	1.17	32.950	26.53
.		79	1.18	32.970	26.54
.		101	0.82	33.150	26.68
.		104	0.75	33.170	26.69
.		127	0.57	33.260	26.76
.		130	0.45	33.350	26.82
.		133	0.30	33.360	26.82
.		141	0.21	33.380	26.83
.		146	0.01	33.490	26.91
.		152	0.06	33.470	26.89
.		154	0.06	33.470	26.89
.		176	0.21	33.580	26.98
.		179	0.31	33.580	26.97
.		182	0.32	33.580	26.97
.		202	0.79	33.870	27.17
.		204	0.79	33.860	27.17
.		222	1.15	34.050	27.30
.		234	1.27	34.060	27.30
.		256	1.61	34.200	27.39
.		262	1.86	34.240	27.40
.		270	2.02	34.310	27.45
.		277	2.43	34.420	27.49
.		284	2.93	34.600	27.45
.		298	3.20	34.550	27.53
.		305	3.74	34.590	27.52
.		312	3.72	34.560	27.49
.		327	3.77	34.670	27.58
.		334	3.84	34.730	27.61
.		354	4.07	34.800	27.64
.		362	4.10	34.820	27.65
.		380	4.21	34.840	27.66
.		385	4.23	34.860	27.67
.		404	4.27	34.860	27.67
.		439	4.27	34.850	27.67

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 39.0N	049 19.4W	05	24	10.2	1971	10978	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA		TYPE	AMT.
0068	20	2	2		14	0	A
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIP	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
19	16	202	10.1	09.9	971.095		

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
10.2		5	6.22	32.390	25.49
.		10	6.21	32.400	25.50
00.1		13	6.20	32.390	25.49
.		16	6.06	32.300	25.44
.		18	5.18	32.050	25.35
.		21	3.37	32.300	25.73
.		24	2.67	32.530	25.97
.		27	2.04	32.540	26.03
.		29	1.60	32.560	26.07
.		32	0.95	32.580	26.13
.		35	0.60	32.810	26.33
.		51	0.55	32.830	26.35
.		54	0.54	32.830	26.36

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 51.9	049 01.2W	05	24	20.9	1971	10979	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0380	16	3	2		14	0	6
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
16	20	170	08.5	08.5			971.036

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
20.9		2	5.05	32.680	25.86
.		10	5.05	32.650	25.84
00.4		13	4.56	32.410	25.70
.		15	3.17	32.530	25.92
.		18	2.67	32.660	26.07
.		21	1.76	32.610	26.10
.		23	1.26	32.710	26.22
.		30	0.62	32.820	26.34
.		33	0.42	32.830	26.36
.		35	0.27	32.850	26.38
.		39	0.30	32.730	26.32
.		41	0.70	32.840	26.42
.		48	1.14	32.970	26.54
.		50	1.19	33.000	26.57
.		53	1.23	33.000	26.57
.		65	1.36	33.070	26.63
.		75	1.09	33.220	26.74
.		78	1.03	33.230	26.75
.		87	1.00	33.310	26.81
.		89	0.83	33.450	26.91
.		92	0.64	33.420	26.89
.		97	0.41	33.500	26.94
.		100	0.36	33.510	26.95
.		103	0.29	33.550	26.97
.		112	0.13	33.620	27.02
.		126	0.15	33.650	27.03
.		129	0.18	33.630	27.02
.		150	0.33	33.730	27.09
.		153	0.38	33.750	27.10
.		177	0.66	33.860	27.17
.		180	0.71	33.870	27.18
.		203	0.91	33.970	27.25
.		206	0.93	33.980	27.25
.		226	1.27	34.130	27.35
.		228	1.36	34.140	27.36
.		243	1.59	34.270	27.44
.		246	1.79	34.310	27.46
.		252	2.10	34.390	27.50
.		254	2.15	34.400	27.51
.		257	2.21	34.490	27.57
.		260	2.55	34.580	27.61
.		277	3.70	34.830	27.71
.		280	3.90	34.720	27.60
.		300	3.88	34.730	27.61
.		303	3.88	34.720	27.60
.		307	3.90	34.750	27.62
.		326	4.05	34.790	27.63
.		329	4.05	34.780	27.63
.		353	4.02	34.790	27.65
.		355	4.03	34.790	27.64

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 51.5N	048 57.2W	05	24	22.1	1971	10980	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SFA		TYPE	AMT.
0684	17	2	2		14	0	6
WIND		BARO- METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULE	WET RULE	VIS CODE	DYN HT	
16	21	169	08.7	08.5		971.013	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
22.1		4	4.47	32.730	25.96
.		17	4.46	32.730	25.96
00.5		15	4.45	32.720	25.95
.		21	4.34	32.710	25.96
.		23	4.22	32.700	25.96
.		27	3.72	32.570	25.91
.		29	2.67	32.510	25.85
.		32	1.70	32.730	26.20
.		35	1.37	32.770	26.26
.		40	0.85	32.840	26.35
.		51	0.50	32.890	26.40
.		54	0.43	32.870	26.39
.		57	0.20	32.800	26.35
.		59	0.34	32.730	26.32
.		62	0.93	32.860	26.45
.		64	1.10	32.990	26.56
.		76	1.41	33.100	26.65
.		79	1.47	33.160	26.70
.		82	1.49	33.190	26.73
.		101	0.56	33.530	26.97
.		104	0.32	33.530	26.96
.		110	0.35	33.570	27.00
.		116	0.17	33.630	27.03
.		121	0.13	33.730	27.11
.		124	0.07	33.760	27.12
.		127	0.15	33.740	27.10
.		130	0.18	33.750	27.11
.		152	0.72	33.910	27.21
.		155	0.74	33.940	27.23
.		164	0.78	33.970	27.26
.		167	0.89	34.070	27.33
.		172	1.21	34.090	27.32
.		175	1.25	34.090	27.32
.		179	1.30	34.110	27.34
.		202	1.82	34.310	27.45
.		204	1.90	34.290	27.43
.		218	2.03	34.380	27.50
.		227	2.20	34.420	27.52
.		233	2.38	34.560	27.61
.		237	2.63	34.580	27.61
.		250	2.99	34.610	27.60
.		253	3.06	34.630	27.61
.		276	3.42	34.680	27.62
.		279	3.44	34.690	27.62
.		302	3.85	34.790	27.66
.		305	3.89	34.810	27.68
.		325	4.00	34.840	27.68
.		330	4.02	34.840	27.68
.		351	4.11	34.870	27.70
.		354	4.13	34.880	27.70
.		376	4.26	34.900	27.70
.		379	4.27	34.900	27.70
.		403	4.41	34.940	27.72
.		407	4.42	34.940	27.72
.		452	4.48	34.970	27.74
.		456	4.47	34.970	27.74
.		512	4.43	34.980	27.75
.		529	4.42	34.980	27.75
.		562	4.43	34.980	27.75
.		577	4.44	34.980	27.75
.		603	4.44	34.980	27.75
.		614	4.44	34.980	27.75
.		651	4.43	34.980	27.75
.		884	4.42	34.980	27.50

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 47.2N	048 43.1W	05	25	01.1	1971	10981	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
2437	19	3	2		X2	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPED		DRY BULB	WET BULB	VIS CODE	DYN HT	
16	20	164	10.5	10.1		970.980	

MESSNGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
01.1		3	7.91	32.930	25.69
.		6	7.87	32.890	25.67
00.7		9	7.57	32.790	25.62
.		12	5.96	32.480	25.59
.		14	5.81	33.250	26.22
.		17	6.41	33.250	26.14
.		20	6.78	33.510	26.30
.		22	7.15	33.410	26.17
.		25	6.44	32.940	25.90
.		28	5.05	33.130	26.22
.		30	4.65	33.080	26.22
.		33	4.54	33.260	26.37
.		36	4.66	33.260	26.36
.		39	3.98	33.060	26.27
.		42	4.06	33.500	26.61
.		44	4.20	33.190	26.36
.		47	3.41	33.130	26.39
.		49	2.84	33.280	26.55
.		52	2.77	33.460	26.70
.		55	2.58	33.530	26.77
.		58	2.73	33.590	26.81
.		73	2.68	33.680	26.88
.		76	3.13	33.960	27.07
.		78	3.62	33.960	27.02
.		84	3.93	33.950	26.98
.		87	3.85	33.870	26.93
.		92	3.45	33.980	27.06
.		95	3.78	34.260	27.24
.		98	4.29	34.220	27.16
.		101	4.21	34.070	27.05
.		104	3.63	33.940	27.01
.		106	3.28	34.020	27.11
.		109	3.04	34.000	27.11
.		112	3.05	34.170	27.24
.		126	3.79	34.320	27.29
.		129	3.79	34.310	27.29
.		152	4.47	34.580	27.43
.		154	4.58	34.590	27.42
.		157	4.72	34.620	27.43
.		174	4.76	34.650	27.45
.		177	4.90	34.680	27.46
.		179	4.95	34.680	27.45
.		185	4.92	34.710	27.48
.		202	5.11	34.780	27.51
.		206	5.17	34.790	27.51
.		226	5.08	34.830	27.55
.		228	5.07	34.830	27.56
.		252	5.15	34.900	27.60
.		255	5.18	34.920	27.61

.	276	5.46	34.970	27.62
.	280	5.43	34.960	27.62
.	301	5.06	35.000	27.69
.	304	5.38	35.110	27.75
.	308	5.54	35.060	27.68
.	327	5.45	35.050	27.68
.	330	5.45	35.050	27.69
.	351	5.28	35.010	27.67
.	354	5.18	35.010	27.69
.	378	5.05	35.010	27.70
.	382	5.02	35.010	27.71
.	403	4.92	35.020	27.72
.	406	4.90	35.010	27.72
.	455	4.95	35.050	27.75
.	460	4.94	35.040	27.74
.	503	4.84	35.040	27.75
.	508	4.80	35.040	27.75
.	550	4.75	35.050	27.77
.	555	4.75	35.050	27.77
.	601	4.66	35.050	27.78
.	607	4.65	35.050	27.78
.	655	4.59	35.050	27.78
.	661	4.58	35.050	27.78
.	702	4.49	35.040	27.79
.	709	4.48	35.040	27.79
.	751	4.33	35.020	27.79
.	757	4.33	35.020	27.79
.	806	4.21	35.010	27.79
.	813	4.20	35.000	27.79
.	855	4.11	34.990	27.79
.	863	4.10	34.990	27.79
.	905	4.01	34.990	27.80
.	912	4.02	34.980	27.80
.	955	3.93	34.980	27.80
.	962	3.94	34.970	27.80
.	1006	3.88	34.970	27.80
.	1011	3.88	34.970	27.80

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
43 43.2	064 31.0	05	25	03.7	1971	10982
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	
	DIR	HGT	PER	SEA	TYPE	AMT.
2977	19	3	2		84	0
WIND		BARO-METER (MB)	AIR TEMP DEG C			
DIR	SPED		DRY BULB	WET BULB	VIS CODE	RYN WT
17	19	150	10.2	10.1		471.010
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T	
03.7		0	5.46	32.680	25.91	
.		10	5.38	32.720	25.85	
03.5		17	1.80	32.640	26.12	
.		20	1.31	32.690	26.19	
.		30	0.81	32.790	26.30	
.		50	0.97	32.990	26.55	
.		55	1.09	33.040	26.59	
.		58	1.06	33.030	26.58	
.		72	0.91	33.320	26.81	
.		75	0.73	33.400	26.87	
.		78	0.65	33.460	26.92	
.		81	0.26	33.620	27.03	
.		83	0.21	33.790	27.14	
.		86	1.35	33.920	27.18	
.		91	2.51	33.950	27.11	
.		94	2.62	33.900	27.06	
.		102	3.08	34.060	27.15	
.		105	3.11	34.040	27.13	
.		125	3.62	34.310	27.31	
.		128	3.73	34.320	27.30	
.		148	4.13	34.520	27.42	
.		151	4.30	34.470	27.36	
.		153	4.29	34.450	27.34	
.		176	4.50	34.560	27.40	
.		180	4.50	34.560	27.41	
.		203	4.55	34.590	27.43	
.		207	4.55	34.590	27.43	
.		230	4.53	34.630	27.46	
.		234	4.53	34.630	27.46	
.		251	4.51	34.650	27.48	
.		256	4.51	34.660	27.49	
.		278	4.49	34.670	27.50	
.		282	4.49	34.670	27.50	
.		300	4.47	34.690	27.52	
.		305	4.47	34.700	27.52	
.		328	4.47	34.730	27.54	
.		333	4.45	34.740	27.55	
.		352	4.43	34.750	27.57	
.		356	4.41	34.750	27.57	
.		380	4.36	34.770	27.59	
.		383	4.36	34.770	27.59	
.		403	4.35	34.790	27.61	
.		407	4.35	34.790	27.61	
.		454	4.30	34.830	27.64	
.		462	4.28	34.840	27.65	
.		507	3.97	34.820	27.67	
.		515	3.94	34.820	27.68	
.		559	3.85	34.830	27.69	
.		568	3.84	34.830	27.69	
.		603	3.80	34.840	27.70	
.		613	3.79	34.840	27.71	
.		658	3.79	34.850	27.72	
.		667	3.79	34.850	27.71	
.		704	3.78	34.860	27.72	
.		713	3.79	34.860	27.72	
.		751	3.80	34.880	27.74	
.		760	3.80	34.880	27.74	
.		806	3.82	34.890	27.75	
.		815	3.82	34.900	27.75	
.		853	3.82	34.910	27.75	
.		861	3.81	34.910	27.76	
.		907	3.77	34.920	27.77	
.		916	3.77	34.920	27.77	
.		953	3.69	34.930	27.78	
.		963	3.66	34.930	27.79	
.		1007	3.66	34.930	27.80	
.		1017	3.63	34.930	27.81	

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-S245.—Continued

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER
				MO.	DAY	HR.		
43 39.5N		048 17.5W		05	25	06.4	1971	10983
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		
	DIP	HGT	PFR	SFA		TYPE	AMT.	
3227	19	3	2		X4	0	6	
WIND		BARO-METER (MBS)		AIR TEMP DEG C				
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT	
16	18	148		09.1	09.1		970.994	
MESSNGER TIME	CAST NO.	DEPTH		TEMP	SAL	SIG-T		
06.4		3		5.48	32.660	25.80		
.		11		5.45	32.660	25.80		
00.5		14		5.14	32.520	25.72		
.		17		3.10	32.180	25.66		
.		20		1.50	32.570	26.09		
.		23		1.21	32.690	26.20		
.		26		0.98	32.730	26.25		
.		31		0.78	32.760	26.28		
.		33		0.66	32.760	26.29		
.		39		0.47	32.740	26.29		
.		42		0.27	32.620	26.20		
.		45		0.43	32.600	26.21		
.		47		1.17	32.950	26.52		
.		51		1.21	33.120	26.67		
.		54		1.08	33.270	26.78		
.		58		0.89	33.320	26.81		
.		67		0.50	33.440	26.89		
.		75		0.31	33.470	26.91		
.		78		0.26	33.520	26.95		
.		92		0.17	33.680	27.06		
.		100		0.56	33.820	27.15		
.		103		0.67	33.840	27.16		
.		123		1.03	34.040	27.29		
.		126		1.56	34.310	27.48		
.		130		2.03	34.160	27.32		
.		133		2.04	34.080	27.25		
.		137		1.82	34.070	27.26		
.		141		1.75	34.110	27.30		
.		145		1.88	34.210	27.38		
.		149		1.97	34.130	27.30		
.		152		1.88	34.070	27.26		
.		155		1.61	34.070	27.28		
.		158		1.54	34.140	27.34		
.		162		1.64	34.320	27.48		
.		166		2.59	34.610	27.64		
.		172		3.49	34.560	27.52		
.		176		3.77	34.620	27.53		
.		180		4.02	34.600	27.49		
.		183		4.20	34.610	27.48		
.		187		4.21	34.570	27.44		
.		194		3.81	34.490	27.42		
.		198		3.68	34.580	27.51		
.		202		3.70	34.550	27.49		
.		205		3.66	34.570	27.50		
.		221		3.64	34.630	27.56		
.		225		3.78	34.690	27.58		
.		229		4.08	34.820	27.66		
.		232		4.50	34.880	27.66		
.		236		4.70	34.810	27.58		
.		239		4.75	34.810	27.58		
.		243		4.65	34.600	27.43		
.		247		3.97	34.550	27.46		
.		252		3.83	34.730	27.61		

.	254	3.98	34.750	27.61
.	259	3.90	34.620	27.52
.	266	3.94	34.860	27.71
.	273	4.48	34.840	27.63
.	281	4.52	34.810	27.60
.	302	4.81	34.900	27.64
.	310	4.90	34.930	27.65
.	326	4.97	34.940	27.65
.	333	4.99	34.940	27.65
.	356	5.07	34.970	27.67
.	365	5.11	34.970	27.66
.	382	5.07	34.980	27.67
.	390	5.06	35.000	27.69
.	407	5.12	35.010	27.69
.	415	5.12	35.020	27.70
.	457	5.18	35.040	27.71
.	465	5.15	35.030	27.71
.	506	4.97	35.020	27.72
.	514	4.91	35.000	27.71
.	555	4.63	34.980	27.73
.	564	4.59	34.980	27.73
.	608	4.52	34.970	27.73
.	616	4.51	34.970	27.73
.	651	4.44	34.960	27.73
.	660	4.40	34.960	27.73
.	702	4.35	34.960	27.74
.	711	4.34	34.960	27.74
.	753	4.26	34.950	27.74
.	762	4.23	34.940	27.74
.	804	4.15	34.930	27.74
.	813	4.14	34.940	27.75
.	864	4.05	34.930	27.75
.	881	4.04	34.930	27.75
.	914	3.98	34.920	27.75
.	930	3.96	34.920	27.75
.	962	3.95	34.920	27.76
.	978	3.95	34.920	27.75
.	1010	3.93	34.930	27.76
.	1021	3.92	34.920	27.76
.	1041	3.90	34.920	27.76
.	1050	3.88	34.920	27.76

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER
				MO.	DAY	HR.		
43 33.5N		047 58.6W		05	25	09.8	1971	10984
DEPTH TO BOTTOM	WAVE OBSERVATIONS					WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA	TYPE		AMT.	
3463	19	4	2		X1	0	6	
WIND		BARO-METER (MR5)	AIR TEMP DFG C					
DIR	SPEED		DRY RULR	WET RULR	VIS CODE	DYN HT		
20	17	155	13.0	12.0		971.03A		

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
09.8		3	9.93	32.910	25.36
.		12	9.93	32.910	25.36
00.5		15	9.74	32.740	25.26
.		17	8.70	32.530	25.26
.		20	6.62	32.740	25.72
.		26	6.09	33.000	25.99
.		29	5.95	32.940	25.96
.		32	5.66	32.950	26.00
.		35	5.47	32.980	26.05
.		37	5.27	32.950	26.05
.		44	4.61	32.980	26.15
.		47	3.90	32.780	26.06
.		50	3.13	33.070	26.36
.		52	2.73	32.980	26.32
.		55	2.24	33.150	26.50
.		58	2.28	33.520	26.79
.		61	2.68	33.630	26.84
.		66	3.08	33.660	26.83
.		69	2.87	33.670	26.86
.		72	2.96	33.880	27.02
.		78	3.32	34.030	27.11
.		80	3.62	34.010	27.07
.		84	3.94	34.150	27.14
.		87	4.14	33.970	26.98
.		90	3.88	34.050	27.07
.		92	3.95	34.100	27.10
.		95	3.86	34.010	27.04
.		97	3.67	33.900	26.97
.		100	3.29	33.990	27.08
.		103	3.30	34.180	27.23
.		105	3.69	34.190	27.20
.		108	3.87	34.330	27.29
.		111	4.22	34.430	27.33
.		114	4.37	34.280	27.20
.		119	4.33	34.320	27.24
.		122	4.07	34.250	27.21
.		126	4.17	34.520	27.39
.		129	4.39	34.260	27.18
.		132	4.12	34.320	27.26
.		136	4.07	34.400	27.33
.		140	4.17	34.420	27.33
.		143	4.10	34.320	27.26
.		146	3.99	34.540	27.45
.		149	4.26	34.510	27.40
.		152	4.22	34.360	27.28
.		155	4.01	34.400	27.34
.		159	3.97	34.490	27.41
.		164	4.16	34.530	27.42
.		178	4.58	34.710	27.52
.		182	4.83	34.720	27.50
.		198	4.98	34.750	27.50
.		202	5.29	34.840	27.54
.		207	5.42	34.810	27.50
.		226	5.54	34.830	27.50

.	230	5.47	34.780	27.47
.	233	5.34	34.810	27.51
.	242	5.40	34.840	27.53
.	253	5.29	34.850	27.55
.	256	5.29	34.860	27.56
.	280	5.03	34.840	27.57
.	287	5.02	34.860	27.59
.	302	5.17	34.910	27.61
.	313	5.18	34.920	27.61
.	333	5.01	34.880	27.60
.	355	4.92	34.920	27.65
.	366	4.82	34.880	27.62
.	376	4.79	34.910	27.66
.	387	4.81	34.920	27.66
.	407	4.75	34.940	27.68
.	418	4.79	34.920	27.66
.	460	4.65	34.910	27.67
.	470	4.69	34.930	27.68
.	502	4.56	35.700	28.31
.	512	4.53	35.990	28.54
.	554	4.41	34.900	27.69
.	564	4.38	34.900	27.69
.	606	4.32	34.910	27.71
.	616	4.28	34.900	27.70
.	656	4.25	34.900	27.71
.	666	4.22	34.900	27.71
.	706	4.18	34.900	27.72
.	717	4.17	34.900	27.71
.	758	4.23	34.920	27.73
.	767	4.23	34.910	27.72
.	807	4.16	34.910	27.73
.	817	4.17	34.910	27.72
.	862	4.03	34.900	27.73
.	881	4.02	34.900	27.73
.	901	3.95	34.880	27.72
.	921	3.91	34.880	27.72
.	959	3.90	34.890	27.73
.	979	3.90	34.890	27.73
.	1018	3.91	34.900	27.74
.	1037	3.96	34.910	27.74
.	1053	3.94	34.910	27.74

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 23.2N	047 23.2W	05	25	11.9	1971	109A6	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
376A	19	3	3		X1	0	6
WIND		BARO-METER (MM Hg)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
21	15	167	14.0	13.5		970.992	

MESSNGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
13.9		1	11.08	32.980	25.22
.		6	11.03	32.970	25.21
00.3		8	10.89	32.920	25.20
.		12	10.62	32.850	25.20
.		14	9.59	32.900	25.40
.		17	8.66	32.750	25.43
.		20	7.40	32.860	25.71
.		23	5.86	33.050	26.06
.		25	5.87	33.340	26.28
.		28	5.46	32.930	26.01
.		31	4.23	33.320	26.45
.		34	4.59	34.090	27.02
.		36	5.21	33.760	26.70
.		39	4.77	33.300	26.38
.		42	3.78	33.350	26.52
.		45	3.26	33.460	26.66
.		47	3.12	33.560	26.75
.		51	3.14	33.490	26.70
.		54	2.74	33.620	26.83
.		58	2.77	33.850	27.02
.		60	3.18	33.800	26.94
.		63	2.98	33.770	26.93
.		66	2.94	33.860	27.01
.		71	3.52	34.040	27.10
.		74	3.39	33.930	27.02
.		77	3.32	33.990	27.08
.		83	3.55	34.130	27.17
.		88	3.83	34.220	27.21
.		103	4.02	34.300	27.26
.		105	4.28	34.360	27.27
.		114	4.32	34.320	27.24
.		117	4.36	34.350	27.26
.		120	4.81	34.980	27.71
.		123	6.11	35.150	27.68
.		126	6.58	34.840	27.37
.		129	6.72	34.900	27.41
.		131	6.83	34.810	27.31
.		134	6.74	34.850	27.36
.		137	6.81	34.850	27.35
.		140	6.71	34.730	27.27
.		143	6.35	34.710	27.30
.		146	6.23	34.780	27.37
.		151	6.24	34.820	27.40
.		155	6.29	34.850	27.42
.		175	6.53	34.900	27.43
.		178	6.54	34.890	27.42
.		202	6.19	34.840	27.43
.		205	6.12	34.820	27.42
.		212	5.87	34.740	27.39
.		215	5.58	34.720	27.41
.		217	5.49	34.820	27.50
.		226	5.69	34.930	27.56
.		229	5.83	34.900	27.52

243	5.71	34.850	27.49
246	5.60	34.810	27.48
250	5.09	34.680	27.44
253	4.96	34.780	27.53
255	4.96	34.800	27.55
276	5.22	34.930	27.62
279	5.28	34.900	27.59
292	5.02	34.800	27.54
295	4.76	34.780	27.55
298	4.62	34.800	27.59
301	4.61	34.830	27.61
305	4.62	34.890	27.65
309	4.72	34.890	27.65
327	4.90	34.920	27.64
329	4.89	34.920	27.65
339	4.90	34.970	27.69
353	5.04	34.940	27.65
356	4.98	34.970	27.68
379	5.02	34.980	27.68
384	4.97	34.960	27.67
405	4.78	34.980	27.71
411	4.85	35.050	27.75
416	5.00	35.050	27.74
453	5.00	35.030	27.73
458	5.00	35.040	27.73
500	4.96	35.040	27.74
510	4.92	35.040	27.74
553	4.73	35.020	27.75
564	4.70	35.020	27.75
609	4.56	35.010	27.75
631	4.49	35.010	27.76
653	4.39	34.990	27.76
674	4.34	34.990	27.77
951	4.03	34.980	27.79
993	4.00	34.970	27.79
1035	3.95	34.970	27.79

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 14.5N	046 56.6W	05	25	16.4	1971	10987	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3827	19	2	2		X1	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY AULA	WET AULA	VIS CODE	DYN WT	
21	15	180	13.2	12.2		971.052	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
16.4		7	9.97	32.810	25.27		
00.3		4	9.99	32.810	25.27		
		12	5.45	32.230	25.46		
		16	4.37	32.660	25.92		
		19	3.94	33.090	26.30		
		23	4.14	33.160	26.33		
		26	4.37	33.910	26.91		
		28	5.43	33.720	26.64		
		32	5.24	34.220	27.06		
		35	7.46	34.650	27.10		
		38	8.97	34.660	26.89		
		41	9.91	34.710	26.77		
		45	9.77	34.590	26.70		
		48	9.71	34.700	26.79		
		50	9.86	34.720	26.78		
		53	10.02	35.170	27.11		
		57	11.17	35.310	27.01		
		60	11.62	35.650	27.19		
		63	12.10	35.410	26.91		
		65	12.25	35.490	26.94		
		69	12.37	35.350	26.81		
		72	12.19	35.360	26.85		
		75	12.16	35.370	26.87		
		78	12.15	35.370	26.87		
		81	12.35	35.640	27.04		
		84	12.69	35.610	26.95		
		86	12.86	35.640	26.94		
		95	13.03	35.620	26.89		
		101	12.93	35.620	26.91		
		104	12.93	35.620	26.91		
		126	12.98	35.650	26.92		
		129	12.93	35.630	26.92		
		133	12.84	35.470	26.81		
		136	12.47	35.380	26.81		
		139	12.24	35.450	26.91		
		142	12.23	35.500	26.95		
		145	12.31	35.620	27.03		
		148	12.45	35.550	26.95		
		151	12.35	35.500	26.93		
		154	12.24	35.410	26.88		
		157	11.88	35.140	26.75		
		160	11.35	34.990	26.73		
		163	10.95	35.070	26.86		
		166	10.58	35.000	26.87		
		169	10.30	35.050	26.96		
		176	10.09	34.970	26.94		
		179	9.88	34.820	26.85		
		182	9.38	34.600	26.77		
		189	8.29	34.380	26.76		
		191	7.50	34.330	26.84		
		195	7.34	34.510	27.01		
		201	7.27	34.520	27.03		
		204	7.22	34.520	27.03		
		229	7.36	34.590	27.07		

232	7.29	34.510	27.01
239	7.10	34.530	27.06
242	7.14	34.540	27.07
246	7.28	34.780	27.23
250	7.75	34.770	27.16
253	7.97	34.980	27.29
256	8.62	35.260	27.40
260	9.05	35.080	27.20
270	9.30	35.030	27.11
274	9.15	34.770	26.94
276	8.66	34.690	26.95
280	8.13	34.410	26.82
284	7.40	34.460	26.96
288	7.20	34.590	27.09
297	7.12	34.590	27.10
300	6.81	34.340	26.95
303	7.20	35.470	27.78
307	8.51	35.840	27.88
310	9.37	35.440	27.43
314	9.64	35.320	27.29
329	9.92	35.330	27.24
332	9.88	35.280	27.21
352	9.50	35.190	27.21
355	9.36	35.170	27.22
376	9.10	35.190	27.27
379	8.97	35.130	27.24
402	8.59	35.140	27.32
405	8.40	34.980	27.22
413	7.19	34.560	27.07
415	6.87	34.800	27.30
419	6.78	34.660	27.21
424	6.13	34.610	27.25
427	6.46	35.220	27.69
431	6.90	35.010	27.46
434	6.92	34.880	27.36
438	6.31	34.380	27.05
441	5.66	34.570	27.28
445	5.26	34.360	27.16
448	4.82	34.500	27.33
452	4.85	34.690	27.47
456	4.94	34.710	27.48
460	4.99	34.690	27.46
475	4.90	34.770	27.53
496	5.49	34.940	27.60
500	5.75	35.020	27.62
504	5.79	34.910	27.53
511	5.60	34.910	27.56
554	6.12	35.030	27.59
560	6.07	35.080	27.63
606	5.80	35.050	27.64
619	5.70	35.040	27.65
653	5.58	35.070	27.69
665	5.53	35.080	27.70
701	5.33	35.060	27.71
712	5.34	35.080	27.72
769	5.22	35.070	27.73
793	5.07	35.050	27.73
902	4.70	35.030	27.76
948	4.60	35.030	27.77
1037	4.41	35.010	27.77
1048	4.38	35.010	27.78

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
42 25.0N	047 30.5W	05	25	21.9	1971	10980	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER	CLOUD CODES	
	DIR	HGT	PER	SEA	CODE	TYPE	AMT.
3002	27	4	3		12	0	0
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT	
27	20	213	11.0	06.9		071.047	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	510-1
21.9	0	10.51	32.430	25.19	
"	10	10.24	32.400	25.22	
00.0	20	9.24	33.000	25.54	
"	30	5.99	33.300	26.23	
"	50	3.09	33.100	26.30	
"	75	3.29	33.300	26.53	
"	100	3.04	33.400	26.55	
"	125	8.15	34.700	27.04	
"	150	5.64	34.500	27.70	
"	165	4.98	34.328	27.33	
"	175	5.34	34.500	27.32	
"	195	4.47	34.520	27.30	
"	200	4.76	34.500	27.39	
"	209	4.38	34.560	27.43	
"	215	4.74	34.000	27.41	
"	230	3.55	34.450	27.42	
"	250	4.00	34.000	27.49	
"	255	3.71	34.520	27.46	
"	280	4.90	34.740	27.49	
"	290	4.00	34.200	27.50	
"	300	4.99	34.940	27.05	
"	400	5.39	35.050	27.09	
"	500	5.20	35.100	27.74	
"	600	4.02	35.000	27.70	
"	700	4.30	35.040	27.70	
"	800	4.25	35.000	27.70	
"	900	4.12	34.999	27.79	
"	1000	4.04	34.990	27.80	
"	1050	4.07	35.000	27.80	
"	1100	3.02	34.900	27.80	
"	1150	3.92	34.900	27.80	

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
42 43.0N	048 15.6W	05	26	02.9	1971	10990	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
3210	28	4	2		11	0	0
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT	
30	10	231	11.1	10.1		071.110	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	510-1
02.9	0	11.30	33.590	25.43	
"	10	11.30	33.740	25.71	
00.0	20	12.10	34.640	26.34	
"	30	13.97	35.500	26.00	
"	40	14.11	35.350	26.01	
"	50	12.42	35.290	26.05	
"	52	12.05	35.300	26.70	
"	75	11.40	35.700	26.00	
"	80	13.36	35.450	26.04	
"	93	13.37	35.720	26.05	
"	100	13.39	35.640	26.04	
"	125	12.74	35.560	26.90	
"	150	11.93	35.500	27.01	
"	200	10.10	35.220	27.12	
"	250	0.49	34.920	27.10	
"	260	0.24	35.050	27.30	
"	290	7.04	35.070	27.37	
"	300	7.74	35.070	27.36	
"	350	6.51	34.900	27.50	
"	370	6.32	35.040	27.54	
"	400	9.79	34.950	27.56	
"	500	9.12	34.950	27.04	
"	515	4.70	34.920	27.04	
"	600	4.01	34.940	27.09	
"	700	4.04	34.960	27.70	
"	800	4.31	34.930	27.72	
"	900	4.23	34.930	27.73	
"	961	4.10	34.910	27.73	
"	1000	4.14	34.930	27.74	
"	1050	4.14	34.940	27.75	
"	105P	4.12	34.940	27.75	

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
42 35.0N	047 55.0W	05	26	00.4	1971	10969	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
3577	27	4	2		11	0	0
WIND		BARO-METER (HRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT	
29	10	225	13.0	11.1		971.010	

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	510-1
00.4	0	8.50	32.010	25.40	
"	10	0.50	32.020	25.50	
00.6	20	0.24	32.010	25.55	
"	30	0.09	32.070	26.04	
"	50	3.74	31.170	26.30	
"	75	2.17	31.440	26.91	
"	85	3.10	32.420	27.63	
"	95	2.30	32.960	27.60	
"	100	2.56	34.000	27.15	
"	120	3.11	34.150	27.22	
"	125	3.04	34.150	27.23	
"	132	2.92	34.200	27.20	
"	150	4.21	34.450	27.35	
"	165	2.07	34.200	27.34	
"	170	1.04	34.400	27.35	
"	180	3.37	34.350	27.34	
"	185	3.54	34.420	27.39	
"	190	3.45	34.490	27.43	
"	200	4.10	34.570	27.49	
"	201	4.29	34.560	27.44	
"	211	4.07	34.540	27.49	
"	220	4.54	34.650	27.47	
"	262	4.20	34.620	27.40	
"	250	4.49	34.740	27.55	
"	300	5.14	34.890	27.60	
"	310	9.21	34.920	27.61	
"	330	9.21	34.930	27.62	
"	340	4.01	34.910	27.67	
"	400	4.09	34.960	27.70	
"	417	5.00	34.990	27.69	
"	500	4.09	35.020	27.73	
"	530	4.93	35.030	27.73	
"	600	4.32	35.000	27.75	
"	700	4.41	35.000	27.74	
"	800	4.20	35.000	27.70	
"	830	4.21	35.000	27.70	
"	834	4.31	34.990	27.77	
"	850	4.17	34.940	27.70	
"	900	4.24	35.010	27.79	
"	900	4.74	34.980	27.74	
"	900	4.12	34.990	27.70	
"	930	4.17	34.990	27.70	
"	1000	3.97	34.940	27.70	
"	1044	4.02	34.960	27.77	
"	1050	4.01	34.960	27.77	

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
42 54.7N	048 37.7W	05	26	05.8	1971	10991	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
2669	26	4	2		X1	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
26	10	240	10.3	09.8		971.054	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
05.8		0	9.08	32.890	25.48		
.		14	9.45	33.300	25.74		
00.7		17	10.54	34.420	26.43		
.		19	11.86	34.170	25.99		
.		22	11.54	33.820	25.78		
.		25	11.02	33.750	25.82		
.		28	10.18	33.340	25.65		
.		30	8.75	33.230	25.79		
.		34	7.14	33.010	25.87		
.		37	6.44	33.450	26.30		
.		40	6.62	33.740	26.50		
.		44	6.82	33.550	26.33		
.		46	6.49	33.900	26.65		
.		50	7.51	34.310	26.83		
.		53	7.34	33.810	26.46		
.		57	5.88	33.810	26.65		
.		59	6.22	34.290	26.99		
.		62	6.31	33.890	26.66		
.		65	5.92	34.030	26.82		
.		68	5.97	33.980	26.78		
.		71	5.86	34.210	26.97		
.		76	6.37	34.360	27.02		
.		80	7.14	34.630	27.13		
.		82	7.39	34.430	26.94		
.		94	8.02	34.690	27.05		
.		102	7.84	34.560	26.98		
.		108	7.75	34.710	27.10		
.		111	7.56	34.560	27.02		
.		118	7.01	34.490	27.04		
.		126	6.69	34.580	27.16		
.		129	6.80	34.570	27.13		
.		132	6.74	34.500	27.09		
.		135	6.51	34.370	27.01		
.		137	6.20	34.370	27.05		
.		140	5.99	34.380	27.09		
.		145	5.92	34.520	27.21		
.		148	6.05	34.520	27.19		
.		151	6.02	34.480	27.16		
.		154	5.83	34.320	27.06		
.		158	5.51	34.280	27.07		
.		161	5.30	34.390	27.18		
.		164	5.30	34.470	27.24		
.		167	5.38	34.320	27.12		
.		170	5.06	34.220	27.08		
.		173	4.62	34.210	27.12		
.		176	4.29	34.200	27.15		
.		179	4.00	34.150	27.14		
.		181	3.80	34.250	27.24		
.		185	3.77	34.200	27.20		
.		195	2.88	34.080	27.19		
.		198	2.79	34.210	27.30		
.		201	2.86	34.280	27.35		
.		204	2.99	34.290	27.35		
.		208	3.11	34.290	27.33		
.		214	3.17	34.280	27.32		
.		220	2.93	34.310	27.37		
.		224	3.22	34.510	27.50		
.		227	3.30	34.330	27.35		
.		230	3.27	34.410	27.41		
.		232	3.21	34.460	27.46		
.		236	4.92	35.800	28.34		
.		240	6.18	35.100	27.63		
.		243	6.50	35.200	27.67		
.		246	6.93	35.120	27.55		
.		250	7.15	35.080	27.48		
.		252	7.12	35.050	27.47		
.		255	7.07	35.040	27.46		
.		276	6.93	35.060	27.50		
.		280	6.82	34.980	27.45		
.		302	6.55	35.040	27.53		
.		305	6.51	35.020	27.53		
.		311	6.43	35.000	27.52		
.		318	6.11	34.840	27.44		
.		321	5.65	34.630	27.33		
.		324	5.28	34.840	27.54		
.		328	5.17	34.800	27.52		
.		332	5.10	34.810	27.54		
.		334	5.06	34.840	27.57		
.		338	5.09	35.060	27.74		
.		340	5.72	35.240	27.80		
.		344	5.88	35.020	27.61		
.		351	5.94	35.040	27.62		
.		354	5.92	34.980	27.57		
.		376	5.86	35.020	27.61		
.		378	5.84	35.020	27.61		
.		387	5.78	34.960	27.58		
.		394	5.35	34.870	27.56		
.		403	5.16	34.870	27.58		
.		406	5.06	34.880	27.60		
.		452	5.29	35.000	27.66		
.		455	5.29	35.000	27.67		
.		503	4.95	34.970	27.68		
.		507	4.93	34.970	27.69		
.		551	4.89	34.990	27.71		
.		555	4.90	35.000	27.71		
.		603	4.78	34.980	27.71		
.		608	4.74	34.980	27.71		
.		651	4.68	34.980	27.72		
.		653	4.65	34.970	27.72		
.		702	4.45	34.950	27.72		
.		705	4.44	34.960	27.73		
.		752	4.42	34.960	27.74		
.		755	4.42	34.970	27.74		
.		802	4.21	34.930	27.74		
.		805	4.20	34.940	27.74		
.		852	4.24	34.950	27.74		
.		855	4.24	34.940	27.74		
.		900	4.22	34.940	27.74		
.		903	4.21	34.940	27.74		
.		952	4.13	34.930	27.74		
.		955	4.13	34.930	27.74		
.		1003	4.06	34.920	27.74		
.		1007	4.05	34.920	27.74		

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 02.2N	048 56.0W	05	26	07.4	1971	10992	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
1821	30	3	2		X1	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULR	WET RULR	VIS CODE	DYN HT	
26	10	245	10.3	09.7		971.027	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
07.4		0	4.77	32.690	25.89		
.		10	4.71	32.660	25.88		
00.6		20	1.21	32.680	26.19		
.		30	0.49	32.720	26.27		
.		50	1.21	32.970	26.54		
.		59	1.26	33.060	26.62		
.		75	0.24	33.370	26.81		
.		100	0.06	33.530	26.94		
.		125	0.36	33.700	27.06		
.		150	0.67	33.820	27.14		
.		180	3.76	34.400	27.36		
.		195	2.82	34.240	27.32		
.		200	2.97	34.160	27.24		
.		220	5.51	34.780	27.46		
.		238	3.36	34.580	27.54		
.		250	4.59	34.700	27.51		
.		280	5.30	34.830	27.53		
.		290	5.15	34.840	27.55		
.		300	5.24	34.870	27.57		
.		305	5.34	34.910	27.58		
.		323	5.27	34.910	27.59		
.		342	5.83	35.050	27.63		
.		400	5.39	35.020	27.67		
.		500	4.92	35.020	27.72		
.		600	4.69	35.010	27.74		
.		700	4.39	34.990	27.76		
.		800	4.19	34.970	27.76		
.		900	3.97	34.940	27.76		
.		1000	3.91	34.930	27.76		
.		1050	3.87	34.930	27.77		
.		1051	3.86	34.930	27.77		

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 07.0N	049 07.0W	05	26	09.4	1971	10993	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
122A	24	3	2		X1	0	6
WIND		WAVE-HEATER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
27	10	255	10.1	09.9			971.055
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
09.4		3	5.14	32.740	25.90		
.		6	5.14	32.740	25.89		
00.7		9	5.04	32.660	25.84		
.		12	4.73	32.690	25.90		
.		15	4.53	32.710	25.94		
.		17	4.24	32.580	25.87		
.		20	2.88	32.450	25.89		
.		23	2.03	32.610	26.08		
.		25	1.55	32.700	26.19		
.		31	0.93	32.780	26.29		
.		34	0.55	32.750	26.29		
.		36	0.13	32.700	26.27		
.		40	0.59	32.750	26.35		
.		42	0.90	32.910	26.49		
.		48	1.01	33.020	26.58		
.		50	1.01	33.060	26.61		
.		53	1.01	33.110	26.65		
.		56	0.89	33.140	26.67		
.		77	0.76	33.250	26.75		
.		80	0.71	33.270	26.77		
.		90	0.43	33.430	26.88		
.		103	0.21	33.490	26.93		
.		106	0.16	33.470	26.90		
.		127	0.13	33.580	26.98		
.		130	0.17	33.620	27.01		
.		150	0.39	33.690	27.06		
.		154	0.42	33.710	27.07		
.		177	0.66	33.780	27.11		
.		180	0.69	33.840	27.16		
.		183	0.84	33.860	27.17		
.		201	1.09	33.930	27.21		
.		205	1.16	33.950	27.22		
.		213	1.13	33.990	27.25		
.		217	1.40	34.060	27.29		
.		228	1.49	34.020	27.25		
.		230	1.50	34.030	27.26		
.		237	1.40	34.040	27.28		
.		250	1.66	34.250	27.42		
.		253	2.27	34.390	27.49		
.		256	2.79	34.360	27.42		
.		259	3.00	34.400	27.43		
.		263	3.35	34.480	27.46		
.		269	3.85	34.500	27.43		
.		277	4.06	34.540	27.44		
.		282	4.45	34.580	27.43		
.		287	4.39	34.570	27.42		
.		292	4.44	34.580	27.43		
.		297	4.40	34.590	27.44		
.		301	4.47	34.650	27.48		
.		303	4.48	34.600	27.44		
.		308	4.27	34.400	27.31		
.		311	3.88	34.510	27.43		
.		315	4.03	34.720	27.58		
.		319	4.22	34.670	27.52		
.		324	4.28	34.740	27.57		
.		328	4.51	34.760	27.57		
.		331	4.66	34.810	27.59		

.	340	5.06	34.860	27.58
.	354	5.14	34.860	27.57
.	357	5.18	34.880	27.58
.	367	5.29	34.900	27.59
.	371	5.12	34.820	27.54
.	378	4.61	34.750	27.54
.	382	4.51	34.810	27.60
.	402	4.41	34.820	27.63
.	405	4.37	34.840	27.64
.	455	4.44	34.910	27.70
.	460	4.45	34.920	27.70
.	504	4.48	34.940	27.71
.	511	4.48	34.950	27.72
.	555	4.68	35.000	27.73
.	562	4.67	35.000	27.74
.	606	4.54	34.990	27.75
.	614	4.53	34.980	27.74
.	661	4.50	35.000	27.75
.	674	4.48	34.990	27.75
.	706	4.43	34.990	27.76
.	718	4.43	34.990	27.76
.	764	4.27	34.970	27.76
.	780	4.20	34.960	27.76
.	817	4.17	34.960	27.76
.	834	4.16	34.960	27.76
.	865	4.14	34.960	27.76
.	881	4.12	34.960	27.77
.	913	4.08	34.950	27.77
.	933	4.06	34.960	27.77
.	951	4.04	34.950	27.77
.	969	4.02	34.950	27.77
.	1016	3.96	34.940	27.77
.	1034	3.95	34.940	27.77

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-S245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 14.2N	049 22.2W	05	26	11.7	1971	10994	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0666	17	4	3		X2	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
17	13	250	08.1	07.9		971.106	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
11.7		4	4.94	32.820	25.98
.		9	4.85	32.720	25.91
00.4		12	4.70	32.470	25.73
.		15	2.56	32.200	25.71
.		18	2.03	32.700	26.15
.		20	1.49	32.560	26.08
.		23	0.91	32.780	26.29
.		26	0.79	32.750	26.28
.		28	0.45	32.760	26.31
.		32	0.21	32.810	26.36
.		35	0.09	32.750	26.31
.		37	0.21	32.830	26.39
.		52	0.64	32.820	26.40
.		56	0.87	32.860	26.44
.		70	1.11	33.050	26.60
.		76	1.05	33.100	26.64
.		79	0.99	33.130	26.67
.		103	0.38	33.240	26.73
.		106	0.36	33.240	26.73
.		125	0.12	33.290	26.75
.		150	0.06	33.400	26.84
.		200	0.31	33.620	27.00
.		225	0.62	33.860	27.17
.		235	1.61	34.000	27.22
.		238	1.38	33.920	27.18
.		250	3.00	34.250	27.31
.		270	4.19	34.480	27.37
.		271	3.96	34.600	27.49
.		338	4.35	34.680	27.52
.		347	4.40	34.700	27.53
.		358	4.21	34.760	27.59
.		364	4.45	34.850	27.64
.		400	4.02	34.760	27.62
.		500	4.25	34.860	27.67
.		600	4.40	34.900	27.69
.		627	4.36	34.890	27.68

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
43 16.4N	049 25.3W	05	26	12.8	1971	10995	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SEA		TYPE	AMT.
0307	23	3	3		X2	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN MT	
19	10	255	08.2	07.9		971.116	

MESSANGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
12.8		6	6.01	32.720	25.78
.		9	6.00	32.730	25.79
00.3		12	5.86	32.620	25.72
.		15	5.47	32.650	25.78
.		18	4.55	32.320	25.63
.		21	2.39	32.140	25.68
.		24	1.35	32.640	26.15
.		27	1.13	32.790	26.29
.		32	0.90	32.750	26.27
.		36	0.41	32.740	26.29
.		39	0.11	32.790	26.34
.		41	0.01	32.860	26.41
.		44	0.05	32.880	26.42
.		48	0.29	32.770	26.35
.		51	0.52	32.840	26.41
.		53	0.68	32.850	26.43
.		60	0.95	33.020	26.57
.		75	0.99	33.040	26.59
.		78	1.03	33.120	26.65
.		103	0.88	33.140	26.66
.		107	0.88	33.140	26.67
.		128	0.35	33.340	26.81
.		131	0.29	33.360	26.82
.		151	0.16	33.380	26.83
.		151	0.16	33.380	26.83
.		154	0.15	33.410	26.86
.		178	0.06	33.500	26.92
.		181	0.06	33.500	26.92
.		201	0.27	33.580	26.97
.		204	0.29	33.620	27.00
.		210	0.38	33.650	27.02
.		212	0.55	33.810	27.14
.		215	0.72	33.750	27.09
.		221	0.82	33.850	27.16
.		224	1.07	33.970	27.24
.		227	1.27	33.890	27.16
.		229	1.34	33.920	27.18
.		242	1.68	34.020	27.24
.		244	1.93	34.100	27.28
.		247	2.49	34.390	27.47
.		250	3.19	34.380	27.40
.		252	3.42	34.300	27.32
.		255	3.48	34.260	27.28
.		258	3.62	34.430	27.39

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-S245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
43 20.8N	049 34.0W	05	26	14.7	1971	10996

DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0132	20	3	3		X2	0	6

WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
21	15	245	09.2	08.9		971.143

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
14.7		0	6.49	32.480	25.53
.		10	3.24	32.340	25.77
00.1		20	2.24	32.710	26.14
.		30	1.64	32.700	26.18
.		50	0.69	32.750	26.28
.		62	0.49	32.860	26.38
.		70	0.47	32.840	26.37
.		76	0.43	32.870	26.39
.		79	0.40	32.860	26.38
.		101	0.28	32.870	26.40
.		104	0.21	32.910	26.44

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
44 40.0N	049 12.0W	05	27	03.3	1971	10997

DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0695	23	3	2		X1	0	6

WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
21	15	235	09.9	09.8		971.128

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
03.3		3	6.30	32.410	25.50
.		10	6.30	32.400	25.49
00.1		13	6.29	32.400	25.49
.		19	6.19	32.390	25.49
.		22	5.99	32.330	25.47
.		25	5.37	32.300	25.52
.		28	4.81	32.460	25.71
.		30	4.66	32.470	25.73
.		33	4.41	32.360	25.67
.		36	2.76	32.210	25.71
.		39	2.00	32.500	26.00
.		42	1.40	32.630	26.14
.		45	0.89	32.570	26.13
.		47	0.40	32.770	26.31
.		50	0.23	32.850	26.38
.		53	0.21	32.850	26.39
.		55	0.20	32.850	26.38
.		65	0.17	32.850	26.39

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER
		MO.	DAY	HR.		
44 37.2N	049 00.9W	05	27	05.0	1971	10998

DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
0479	25	3	2		X4	0	6

WIND		BARO-METER (MRS)	AIR TEMP DEG C			
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT
22	14	239	09.0	09.0		971.102

MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T
05.0		4	6.06	32.530	25.62
.		9	6.04	32.530	25.62
00.4		12	5.85	32.400	25.54
.		15	5.18	32.450	25.66
.		18	4.31	32.350	25.68
.		21	2.82	32.500	25.94
.		23	2.05	32.720	26.17
.		29	1.65	32.740	26.21
.		32	1.33	32.700	26.20
.		35	1.14	32.770	26.28
.		38	1.04	32.820	26.32
.		43	1.09	32.770	26.28
.		49	0.55	32.770	26.30
.		52	0.41	32.800	26.34
.		55	0.30	32.800	26.34
.		60	0.00	32.760	26.32
.		68	0.69	32.840	26.42
.		78	1.05	32.870	26.46
.		81	1.06	32.940	26.51
.		84	0.98	33.060	26.61
.		88	0.80	33.020	26.57
.		100	0.86	33.050	26.60
.		104	0.86	33.070	26.61
.		127	0.70	33.150	26.67
.		130	0.63	33.200	26.71
.		151	0.35	33.290	26.76
.		155	0.31	33.300	26.77
.		160	0.28	33.200	26.70
.		175	0.15	33.370	26.83
.		179	0.10	33.390	26.84
.		187	0.06	33.380	26.83
.		193	0.20	33.630	27.02
.		199	0.68	33.750	27.09
.		207	0.95	33.800	27.11
.		227	1.82	34.180	27.35
.		235	1.97	34.170	27.34
.		255	2.44	34.350	27.44
.		263	2.59	34.370	27.45
.		277	2.89	34.450	27.48
.		285	3.04	34.520	27.52
.		306	3.22	34.550	27.53
.		329	3.61	34.640	27.57
.		336	3.61	34.640	27.56
.		351	3.61	34.640	27.56
.		357	3.61	34.640	27.56
.		380	3.63	34.650	27.57
.		387	3.69	34.670	27.58
.		400	3.78	34.700	27.59
.		408	3.87	34.720	27.60
.		451	4.27	34.830	27.65
.		454	4.27	34.830	27.65

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-S245.—Continued

LATITUDE		LONGITUDE		STATION TIME (GMT)		YEAR	STATION NUMBER		
				MO.	DAY				HR.
44 37.04		048 56.2W		05	27	06.2	1971	10999	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE		CLOUD CODES		
	DIR	HGT	PER	SEA			TYPE	AMT.	
1024	24	3	2		14		0	A	
WIND		BARO-METER (MRS)		AIR TEMP DEG C					
DIR	SPED			DRY BULB	WET BULB	VIS CODE	WYND HT		
22	15	237		09.0	09.0			971.05R	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T				
06.2		9	5.22	32.590	25.77				
.		11	5.22	32.590	25.77				
00.6		14	5.09	32.530	25.74				
.		17	4.73	32.530	25.78				
.		20	4.16	32.460	25.78				
.		22	2.62	32.290	25.79				
.		25	1.74	32.730	26.20				
.		28	1.46	32.790	26.26				
.		30	1.32	32.810	26.29				
.		33	1.18	32.820	26.31				
.		41	1.00	32.820	26.32				
.		44	0.45	32.680	26.24				
.		46	0.05	32.890	26.43				
.		49	0.00	32.880	26.42				
.		53	0.21	32.820	26.39				
.		61	0.86	32.970	26.53				
.		78	0.98	33.100	26.64				
.		81	1.00	33.120	26.65				
.		84	1.02	33.120	26.66				
.		90	1.01	33.060	26.60				
.		101	0.99	33.180	26.70				
.		104	0.97	33.210	26.73				
.		127	0.67	33.230	26.73				
.		130	0.63	33.310	26.79				
.		153	0.27	33.470	26.91				
.		156	0.22	33.470	26.91				
.		176	0.16	33.590	26.99				
.		179	0.17	33.600	26.99				
.		201	0.35	33.700	27.07				
.		203	0.39	33.730	27.08				
.		218	0.69	33.850	27.17				
.		222	0.95	34.020	27.28				
.		228	1.16	34.080	27.32				
.		232	1.39	34.090	27.31				
.		244	1.47	34.160	27.36				
.		247	1.67	34.210	27.39				
.		250	1.74	34.220	27.39				
.		253	1.77	34.260	27.42				
.		260	2.02	34.310	27.44				
.		266	2.05	34.340	27.46				
.		271	2.27	34.410	27.51				
.		277	2.68	34.600	27.62				
.		280	2.86	34.580	27.59				
.		303	3.49	34.750	27.66				
.		305	3.59	34.750	27.66				
.		327	3.72	34.760	27.65				
.		330	3.73	34.790	27.68				
.		353	3.94	34.840	27.69				
.		356	3.98	34.830	27.68				
.		378	4.25	34.900	27.71				
.		381	4.28	34.920	27.71				
.		401	4.38	34.940	27.72				
.		405	4.40	34.940	27.72				
.		452	4.45	34.960	27.73				
.		455	4.47	34.970	27.74				
.		501	4.44	34.980	27.75				
.		508	4.44	34.980	27.75				
.		551	4.45	34.990	27.75				
.		557	4.45	34.990	27.76				
.		601	4.40	34.990	27.76				
.		608	4.40	34.990	27.76				
.		654	4.36	34.990	27.76				
.		662	4.35	34.990	27.77				
.		701	4.31	34.990	27.77				
.		709	4.30	34.990	27.77				
.		754	4.23	34.980	27.77				
.		763	4.22	34.980	27.77				
.		802	4.13	34.980	27.78				
.		810	4.13	34.980	27.78				
.		856	4.12	34.980	27.79				
.		861	4.11	34.980	27.78				
.		906	4.11	34.980	27.78				
.		913	4.11	34.970	27.78				
.		951	4.10	34.970	27.78				
.		959	4.11	34.980	27.78				
.		1003	4.10	34.970	27.78				

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 29.6N	048 26.2W	05	27	11.9	1971	11001	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PFR	SFA		TYPE	AMT.
3054	21	1	2		4	0	6
WIND		BAROMETER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
21	15	243	08.0	07.8		970.983	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
11.9		4	6.15	32.820	25.84		
.		12	6.09	32.820	25.84		
00.6		15	6.05	32.810	25.84		
.		18	5.74	32.500	25.63		
.		20	3.26	32.080	25.56		
.		23	1.70	32.660	26.15		
.		25	1.26	32.830	26.31		
.		28	1.03	32.820	26.32		
.		31	0.89	32.870	26.37		
.		34	0.80	32.840	26.35		
.		42	0.04	32.850	26.40		
.		48	0.94	32.920	26.49		
.		51	1.09	33.020	26.57		
.		53	1.16	33.010	26.57		
.		56	1.26	33.120	26.66		
.		69	0.89	33.430	26.90		
.		73	0.07	33.690	27.08		
.		76	0.47	33.720	27.07		
.		78	1.07	33.620	26.96		
.		81	0.47	33.360	26.79		
.		84	0.26	33.660	27.04		
.		87	0.24	33.680	27.06		
.		90	0.52	33.960	27.26		
.		93	1.43	33.780	27.07		
.		96	1.47	34.190	27.39		
.		98	2.25	33.980	27.16		
.		102	2.14	33.970	27.16		
.		105	2.38	34.060	27.22		
.		108	2.98	34.280	27.34		
.		112	4.04	34.350	27.29		
.		115	4.12	34.200	27.17		
.		118	3.94	34.190	27.18		
.		123	3.83	34.240	27.23		
.		126	4.03	34.330	27.27		
.		129	4.25	34.390	27.30		
.		132	4.66	34.540	27.37		
.		135	4.93	34.450	27.27		
.		140	4.85	34.410	27.25		
.		148	4.54	34.450	27.31		
.		151	4.60	34.490	27.34		
.		154	4.70	34.580	27.40		
.		157	4.85	34.570	27.37		
.		160	4.90	34.580	27.38		
.		166	4.79	34.580	27.39		
.		176	4.93	34.640	27.43		
.		179	4.94	34.670	27.44		
.		201	4.97	34.730	27.49		
.		206	4.94	34.730	27.50		
.		209	4.92	34.740	27.50		
.		227	5.23	34.880	27.58		
.		233	5.39	34.880	27.56		
.		244	5.38	34.920	27.59		
.		249	5.59	34.970	27.60		
.		254	5.55	34.940	27.58		
.		260	5.47	34.930	27.59		
.		276	5.65	35.030	27.65		

285	5.93	35.090	27.66
306	5.95	35.080	27.65
316	5.99	35.100	27.66
327	5.85	35.030	27.62
359	5.48	35.040	27.68
379	5.17	35.020	27.70
400	5.03	35.020	27.71
421	4.99	35.030	27.73
441	4.92	35.010	27.72
462	4.87	35.050	27.75
483	4.93	35.050	27.75
504	4.74	35.030	27.75
526	4.65	35.030	27.76
568	4.51	35.020	27.77
590	4.44	35.020	27.78
613	4.39	35.010	27.78
636	4.36	35.010	27.78
657	4.37	35.020	27.79
682	4.31	35.010	27.78
707	4.26	35.010	27.79
732	4.24	35.010	27.79
756	4.23	35.010	27.79
780	4.16	34.990	27.79
804	4.05	34.980	27.79
827	4.04	34.990	27.80
871	3.98	34.980	27.79
891	3.97	34.980	27.80
911	3.94	34.970	27.79
931	3.91	34.970	27.80
951	3.88	34.970	27.80
972	3.87	34.970	27.80
1020	3.89	34.980	27.80
1046	3.88	34.970	27.80

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME (GMT)			YEAR	STATION NUMBER	
				MO.	DAY	HR.			
44 26.8N		048 10.3W		05	27	14.4	1971	11002	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			
	DIR	HGT	PER	SFA		TYPE	AMT.		
3343	20	1	2		X4	0	6		
WIND		BARO-METER (MRS)		AIR TEMP DEG C					
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT		
25	19	241		11.5	11.3		971.037		
MESSENGER TIME	CAST NO.	DEPTH		TEMP	SAL	SIG-T			
14.4		4		9.40	33.100	25.59			
.		12		9.37	33.110	25.60			
00.7		14		9.34	33.100	25.60			
.		20		9.20	33.130	25.65			
.		23		7.39	32.040	25.07			
.		26		3.85	32.960	26.20			
.		29		3.87	33.640	26.75			
.		32		4.79	34.110	27.02			
.		35		6.28	34.760	27.35			
.		37		8.52	35.120	27.31			
.		40		9.13	34.690	26.87			
.		43		9.18	34.700	26.88			
.		45		9.35	34.780	26.91			
.		49		8.89	34.410	26.70			
.		52		8.63	34.820	27.06			
.		54		8.98	34.820	27.01			
.		60		9.34	34.910	27.01			
.		63		9.35	34.820	26.95			
.		66		9.26	34.860	26.99			
.		69		9.34	34.900	27.01			
.		74		9.35	34.880	26.99			
.		77		9.14	34.720	26.90			
.		88		8.75	34.790	27.02			
.		91		8.91	34.940	27.11			
.		94		9.03	34.830	27.00			
.		97		8.86	34.850	27.05			
.		100		8.95	34.910	27.08			
.		103		8.94	34.870	27.05			
.		106		8.80	34.820	27.04			
.		112		8.80	34.840	27.05			
.		120		8.19	34.760	27.08			
.		123		8.04	34.680	27.04			
.		126		7.70	34.610	27.03			
.		129		7.43	34.630	27.09			
.		132		7.10	34.570	27.09			
.		138		6.72	34.520	27.11			
.		140		6.16	34.330	27.03			
.		143		5.66	34.450	27.19			
.		149		5.67	34.520	27.24			
.		151		5.94	34.670	27.32			
.		154		6.07	34.590	27.25			
.		157		5.93	34.430	27.14			
.		160		5.69	34.490	27.22			
.		174		5.41	34.510	27.26			
.		177		5.67	34.690	27.38			
.		180		6.20	34.880	27.46			
.		183		6.47	34.750	27.32			
.		200		6.78	34.810	27.32			
.		203		6.62	34.640	27.21			
.		212		6.09	34.660	27.30			
.		215		6.03	34.660	27.31			
.		221		5.58	34.580	27.30			
.		224		5.17	34.490	27.27			
.		226		4.89	34.510	27.32			
.		229		4.83	34.560	27.17			

.	212	4.95	34.680	27.45
.	215	5.40	34.810	27.50
.	218	5.53	34.730	27.42
.	243	5.47	34.700	27.40
.	252	5.28	34.720	27.45
.	254	5.28	34.730	27.45
.	277	5.18	34.740	27.47
.	280	5.18	34.750	27.48
.	302	5.29	34.860	27.55
.	306	5.44	34.910	27.58
.	310	5.56	34.920	27.57
.	325	5.64	34.950	27.58
.	329	5.57	34.910	27.56
.	352	5.33	34.940	27.61
.	355	5.34	34.930	27.60
.	358	5.32	34.920	27.60
.	377	5.02	34.920	27.63
.	383	5.03	34.930	27.64
.	392	5.11	34.960	27.66
.	402	5.00	34.940	27.66
.	408	5.01	34.950	27.66
.	454	5.33	35.030	27.69
.	465	5.36	35.050	27.69
.	479	5.23	35.050	27.71
.	510	5.26	35.060	27.71
.	536	5.18	35.060	27.73
.	566	5.07	35.050	27.73
.	596	4.93	35.050	27.75
.	655	4.66	35.020	27.75
.	684	4.55	35.010	27.76
.	712	4.49	35.010	27.76
.	740	4.44	35.000	27.76
.	769	4.39	35.000	27.77
.	799	4.35	35.000	27.77
.	858	4.30	34.990	27.77
.	887	4.27	34.990	27.77
.	916	4.23	34.990	27.78
.	945	4.22	34.990	27.78
.	1004	4.19	35.000	27.79
.	1033	4.18	34.990	27.79

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 25.7N	047 49.8W	05	27	17.6	1971	11003	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIR	HGT	PER	SFA		TYPE	AMT.
3475	23	1	2		X4	0	6
WIND		BARO- METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY RULE	WET RULE	VIS CODE	GYN HT	
24	18	242	11.1	11.0			971.028
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
17.6		2	10.16	32.920	25.33		
.		10	10.12	32.940	25.35		
00.6		13	10.07	32.940	25.36		
.		16	10.04	32.950	25.37		
.		18	9.20	32.390	25.07		
.		21	6.40	32.490	25.55		
.		23	6.11	33.010	26.00		
.		26	5.94	32.800	25.85		
.		29	5.16	32.880	26.00		
.		31	5.14	33.130	26.20		
.		34	5.08	32.920	26.04		
.		37	4.67	33.090	26.22		
.		40	4.29	33.080	26.26		
.		43	3.60	33.140	26.38		
.		46	3.57	33.290	26.50		
.		49	3.22	33.340	26.57		
.		52	3.06	33.050	26.35		
.		54	2.22	33.190	26.53		
.		57	2.30	33.530	26.79		
.		60	2.69	33.590	26.82		
.		63	3.30	33.800	26.92		
.		66	3.42	33.710	26.84		
.		71	3.90	33.760	26.84		
.		77	3.88	33.760	26.84		
.		80	3.97	33.940	26.97		
.		82	4.10	34.050	27.05		
.		85	4.51	34.210	27.13		
.		91	5.03	34.230	27.09		
.		93	5.05	34.080	26.97		
.		100	4.44	33.960	26.94		
.		103	4.74	34.480	27.32		
.		106	5.08	34.300	27.13		
.		110	4.91	34.360	27.21		
.		113	5.22	34.480	27.26		
.		116	5.45	34.510	27.26		
.		119	5.51	34.450	27.20		
.		122	5.33	34.360	27.15		
.		125	5.51	34.660	27.37		
.		128	5.92	34.630	27.30		
.		132	5.90	34.540	27.27		
.		135	5.35	34.370	27.16		
.		138	5.16	34.500	27.28		
.		144	5.20	34.640	27.39		
.		146	5.56	34.710	27.42		
.		149	5.67	34.640	27.33		
.		152	5.62	34.570	27.28		
.		156	5.39	34.510	27.27		
.		158	5.30	34.590	27.34		
.		167	5.67	34.680	27.37		
.		174	5.72	34.630	27.32		
.		177	5.51	34.610	27.31		
.		179	5.43	34.630	27.36		
.		202	5.37	34.680	27.40		
.		205	5.34	34.660	27.39		
.		210	5.29	34.660	27.40		

•	218	5.10	34.640	27.41
•	221	4.88	34.480	27.30
•	225	4.66	34.610	27.43
•	227	4.64	34.620	27.44
•	230	4.80	34.810	27.57
•	236	5.35	34.860	27.55
•	239	5.44	34.810	27.50
•	250	5.99	35.030	27.60
•	254	6.22	35.010	27.56
•	276	6.15	34.950	27.52
•	280	6.07	34.970	27.55
•	303	6.05	34.980	27.56
•	308	5.94	34.950	27.54
•	312	5.78	34.900	27.52
•	316	5.51	34.870	27.54
•	325	5.38	34.890	27.57
•	330	5.32	34.930	27.60
•	354	5.88	35.060	27.64
•	357	5.91	35.050	27.63
•	376	5.74	35.020	27.63
•	384	5.57	35.000	27.63
•	398	5.23	34.970	27.65
•	407	5.20	34.980	27.66
•	424	5.17	34.980	27.66
•	452	5.05	34.980	27.68
•	484	4.94	34.990	27.70
•	517	4.83	34.980	27.71
•	547	4.74	34.990	27.72
•	613	4.75	35.030	27.75
•	647	4.64	35.010	27.75
•	757	4.38	34.990	27.76
•	795	4.34	34.990	27.77
•	906	4.21	34.990	27.78
•	943	4.15	34.980	27.78
•	1016	4.02	34.970	27.78
•	1045	3.98	34.970	27.79

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 22.0N	047 39.2W	05	27	20.6	1971	11004	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SFA		TYPE	AMT.
3658	22	1	2		X4	0	6
WIND		BARO-METER (MMHG)	AIR TEMP DEG C				
DIP	SPEED		DRY RULA	WET RULA	VIS CODE	DYN HT	
23	15	240	11.5	11.5		971.049	
MESSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
20.6		3	10.86	32.910	25.20		
.		8	10.75	32.920	25.23		
00.6		12	10.50	32.840	25.21		
.		14	9.46	32.410	25.04		
.		17	7.21	32.570	25.51		
.		20	5.87	32.800	25.85		
.		23	5.39	33.010	26.08		
.		27	4.89	32.990	26.13		
.		30	4.91	33.390	26.43		
.		33	6.07	33.780	26.60		
.		36	6.16	33.420	26.31		
.		39	6.36	33.940	26.70		
.		42	6.50	33.460	26.30		
.		44	4.92	33.200	26.28		
.		51	3.78	33.500	26.64		
.		53	4.22	34.080	27.06		
.		56	4.83	33.920	26.86		
.		59	5.11	33.940	26.85		
.		62	5.08	34.020	26.91		
.		64	5.77	34.410	27.14		
.		67	5.96	34.070	26.85		
.		70	5.51	33.990	26.84		
.		73	5.72	34.580	27.28		
.		76	7.18	34.790	27.25		
.		79	7.28	34.530	27.03		
.		82	7.22	34.620	27.11		
.		85	7.68	34.740	27.14		
.		88	7.67	34.600	27.04		
.		91	7.48	34.540	27.01		
.		94	6.89	34.300	26.91		
.		98	6.22	34.170	26.90		
.		100	5.72	34.270	27.04		
.		103	5.18	34.040	26.92		
.		106	5.36	34.650	27.38		
.		109	5.81	34.390	27.12		
.		112	5.33	34.180	27.01		
.		117	4.89	34.280	27.14		
.		120	4.83	34.120	27.02		
.		123	3.77	33.650	26.76		
.		126	2.63	33.890	27.06		
.		129	2.59	34.140	27.26		
.		132	3.69	34.850	27.72		
.		134	4.26	34.480	27.37		
.		137	4.53	34.440	27.31		
.		140	4.56	34.590	27.42		
.		143	5.07	34.690	27.44		
.		146	5.08	34.220	27.07		
.		149	4.53	34.340	27.23		
.		152	4.58	34.590	27.42		
.		155	4.77	34.470	27.31		
.		159	4.65	34.350	27.23		
.		162	4.35	34.390	27.29		
.		165	4.25	34.510	27.40		
.		168	4.47	34.620	27.46		
.		171	5.01	34.910	27.62		

.	173	5.40	34.800	27.49
.	176	5.63	34.730	27.41
.	179	5.66	34.710	27.39
.	182	5.63	34.670	27.36
.	190	5.28	34.680	27.41
.	200	5.45	34.710	27.41
.	203	5.34	34.670	27.40
.	211	5.47	34.770	27.46
.	226	5.29	34.730	27.46
.	229	5.24	34.720	27.45
.	247	4.50	34.680	27.50
.	249	4.53	34.710	27.53
.	253	4.69	34.810	27.59
.	255	4.80	34.820	27.58
.	259	4.83	34.690	27.47
.	261	4.63	34.710	27.51
.	277	4.65	34.790	27.57
.	280	4.66	34.790	27.57
.	305	5.05	34.890	27.61
.	309	5.07	34.900	27.61
.	326	5.01	34.880	27.61
.	331	4.98	34.890	27.62
.	352	4.78	34.920	27.66
.	357	4.92	34.950	27.67
.	377	4.97	34.940	27.66
.	381	4.97	34.950	27.66
.	403	5.09	34.990	27.69
.	406	5.11	35.000	27.69
.	451	4.95	34.980	27.69
.	503	4.93	35.020	27.72
.	520	4.99	35.040	27.73
.	554	4.81	35.000	27.72
.	662	4.38	34.980	27.75
.	696	4.33	34.970	27.76
.	766	4.23	34.970	27.76
.	799	4.20	34.960	27.76
.	902	4.14	34.960	27.76
.	936	4.12	34.960	27.77
.	1005	4.11	34.960	27.77
.	1037	4.08	34.960	27.77

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE		LONGITUDE		STATION TIME			YEAR	STATION NUMBER
				(GMT)				
				MO.	DAY	HR.		
44 14.0'		047 06.6W		05	24	00.2	1971	11005
DEPTH TO BOTTOM	WAVE OBSERVATIONS					WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SEA	TYPE		AMT.	
1021	23	1	2		X4	0	6	
WIND		BAROMETER (MMHG)		AIR TEMP DEG C				
DIR	SPEED			DRY BULB	WET BULB	VIS CODE	DYN HT	
23	20	234		10.0	10.0		971.053	
MESSENGER TIME	CAST NO.	DEPTH		TEMP	SAL	SIG-T		
00.2		4		11.90	32.870	24.98		
.		12		11.90	32.870	24.98		
00.6		15		11.89	32.870	24.98		
.		17		11.12	32.410	24.77		
.		20		9.16	32.480	25.30		
.		22		7.04	32.740	25.66		
.		25		6.32	32.780	25.79		
.		29		5.91	33.050	26.05		
.		31		5.54	33.010	26.07		
.		33		4.89	33.060	26.18		
.		36		4.90	33.370	26.42		
.		38		5.53	33.880	26.75		
.		41		5.78	33.610	26.51		
.		47		5.00	33.420	26.45		
.		50		4.44	33.600	26.66		
.		52		4.39	33.660	26.71		
.		55		4.24	33.600	26.68		
.		58		4.04	33.620	26.71		
.		61		4.20	33.890	26.91		
.		64		4.77	33.980	26.92		
.		69		5.46	34.020	26.87		
.		72		3.60	33.500	26.66		
.		75		3.14	33.790	26.93		
.		78		4.37	34.400	27.29		
.		81		3.73	33.990	27.04		
.		84		4.44	34.400	27.29		
.		87		5.99	34.730	27.36		
.		89		6.97	34.600	27.13		
.		92		7.12	34.480	27.02		
.		94		6.69	34.240	26.88		
.		97		5.97	34.040	26.82		
.		100		5.62	34.250	27.03		
.		103		5.11	34.120	26.99		
.		105		5.06	34.160	27.03		
.		109		4.64	34.110	27.03		
.		111		4.66	34.200	27.10		
.		114		4.98	34.320	27.16		
.		117		4.85	34.100	27.01		
.		120		4.57	34.200	27.12		
.		123		4.62	34.350	27.23		
.		126		5.17	34.380	27.19		
.		128		5.13	34.310	27.14		
.		131		5.07	34.430	27.24		
.		134		5.39	34.480	27.24		
.		140		5.59	34.460	27.20		
.		143		5.37	34.220	27.04		
.		149		4.49	34.240	27.16		
.		152		4.43	34.290	27.20		
.		154		4.44	34.290	27.20		
.		157		4.41	34.330	27.23		
.		163		5.43	34.780	27.47		
.		166		5.75	34.590	27.28		
.		169		6.06	34.760	27.38		
.		172		6.21	34.650	27.27		
.		175		6.12	34.460	27.13		
.		177		5.76	34.530	27.24		
.		180		5.67	34.430	27.17		

.	183	5.38	34.710	27.42
.	186	5.80	34.770	27.42
.	189	6.37	34.970	27.51
.	192	7.21	35.090	27.48
.	194	7.24	34.880	27.32
.	197	7.03	34.840	27.31
.	200	6.92	34.820	27.31
.	203	6.80	34.790	27.31
.	206	6.68	34.750	27.29
.	209	6.35	34.610	27.22
.	213	5.79	34.510	27.22
.	215	5.60	34.650	27.35
.	221	5.55	34.620	27.34
.	224	5.35	34.510	27.27
.	228	5.10	34.580	27.36
.	231	5.05	34.610	27.38
.	236	5.05	34.670	27.43
.	245	5.65	34.780	27.45
.	251	5.79	34.820	27.46
.	254	5.83	34.810	27.45
.	256	5.88	34.820	27.45
.	259	5.78	34.710	27.37
.	262	5.67	34.790	27.45
.	265	5.65	34.770	27.44
.	268	5.40	34.620	27.35
.	270	5.15	34.670	27.42
.	276	4.97	34.700	27.47
.	279	4.98	34.730	27.49
.	302	5.40	34.850	27.53
.	309	5.88	35.100	27.67
.	312	6.10	35.010	27.57
.	327	6.02	34.950	27.54
.	329	5.96	34.940	27.53
.	334	5.80	34.930	27.54
.	354	5.46	34.900	27.57
.	357	5.41	34.880	27.56
.	365	5.25	34.840	27.55
.	378	5.09	34.870	27.59
.	381	5.05	34.850	27.58
.	401	5.02	34.900	27.62
.	404	5.02	34.900	27.62
.	451	5.02	34.940	27.65
.	453	5.11	35.040	27.72
.	457	5.24	35.010	27.68
.	501	5.54	35.060	27.68
.	505	5.55	35.060	27.68
.	550	5.07	35.000	27.69
.	554	5.05	35.000	27.69
.	604	4.83	34.990	27.71
.	607	4.78	34.960	27.70
.	652	4.58	34.960	27.72
.	655	4.56	34.950	27.71
.	703	4.48	34.950	27.72
.	706	4.47	34.960	27.73
.	753	4.49	34.970	27.73
.	756	4.49	34.980	27.74
.	766	4.48	34.950	27.72
.	801	4.27	34.930	27.73
.	804	4.26	34.940	27.73
.	853	4.22	34.940	27.74
.	857	4.21	34.940	27.74
.	902	4.18	34.940	27.74
.	905	4.18	34.940	27.74
.	951	4.12	34.930	27.74
.	955	4.10	34.930	27.74
.	1003	4.04	34.930	27.75
.	1043	3.94	34.920	27.75

TABLE III. Observed oceanographic data from stations occupied by USCGC ROCKAWAY, 20-28 May 1971, prepared from NODC Listing No. 31-8245.—Continued

LATITUDE	LONGITUDE	STATION TIME (GMT)			YEAR	STATION NUMBER	
		MO.	DAY	HR.			
44 11.9N	046 35.9W	05	20	04.7	1971	11004	
DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	
	DIP	HGT	PER	SFA		TYPE	AMT.
3000	25	3	2		X4	0	6
WIND		BARO-METER (MRS)	AIR TEMP DEG C				
DIR	SPEED		DRY BULB	WET BULB	VIS CODE	DYN HT	
21	17	229	13.1	12.8			971.204
MESSSENGER TIME	CAST NO.	DEPTH	TEMP	SAL	SIG-T		
04.7		0	12.11	33.790	25.65		
.		10	14.68	35.150	26.18		
00.7		20	14.10	35.250	26.38		
.		30	13.74	35.380	26.55		
.		50	11.66	34.760	26.49		
.		58	11.84	35.110	26.72		
.		62	11.90	35.300	26.86		
.		75	12.92	35.440	26.77		
.		79	13.03	35.430	26.74		
.		83	12.57	35.400	26.81		
.		95	12.74	35.460	26.82		
.		100	12.70	35.450	26.82		
.		125	12.68	35.480	26.85		
.		140	12.53	35.480	26.88		
.		150	12.59	35.510	26.89		
.		200	9.31	34.860	26.98		
.		215	8.87	34.930	27.10		
.		220	9.16	34.880	27.02		
.		227	9.11	34.880	27.03		
.		249	10.28	35.170	27.06		
.		250	10.27	35.160	27.05		
.		259	9.96	35.300	27.21		
.		263	10.53	35.120	26.97		
.		300	8.81	34.900	27.09		
.		312	6.54	34.580	27.17		
.		324	7.79	34.890	27.24		
.		350	6.51	34.630	27.22		
.		370	8.31	35.060	27.29		
.		396	5.34	34.600	27.34		
.		400	5.13	34.540	27.32		
.		440	7.09	34.990	27.42		
.		475	5.62	34.840	27.50		
.		489	5.79	34.800	27.44		
.		491	5.61	34.830	27.49		
.		500	5.75	34.910	27.53		
.		504	5.89	34.940	27.54		
.		590	5.01	34.880	27.60		
.		600	5.02	34.890	27.61		
.		620	5.02	34.910	27.63		
.		660	4.92	34.920	27.65		
.		675	5.25	35.000	27.67		
.		695	5.19	34.990	27.67		
.		700	5.21	35.000	27.68		
.		715	5.29	35.030	27.69		
.		780	4.85	34.970	27.69		
.		800	4.92	34.990	27.70		
.		811	4.94	35.000	27.71		
.		900	4.33	34.920	27.71		
.		980	4.17	34.910	27.72		
.		1000	4.22	34.910	27.72		
.		1050	4.31	34.930	27.72		
.		1010	4.03	34.920	27.75		

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